DEPARTMENT OF THE AIR FORCE
AIR FORCE CENTER FOR ENGINEERING AND THE ENVIRONMENT

March 6, 2012

MEMORANDUM FOR: See Distribution List

FROM: AFCEE/EXC - Griffiss
Building 770
428 Phoenix Drive
Rome, New York 13441

SUBJECT: Final 2011 Monitoring Report
SS060 (Building 35 AOC)
Former Griffiss Air Force Base (AFB) Rome, New York
Contract Number FA8903-10-D-8595
Delivery Order 0014

1. Accompanying this letter please find the "Final 2011 Monitoring Report for SS060 (Building 35 AOC)" for your review and comment.

2. This Report has been prepared by the Air Force Center for Engineering and the Environment (AFCEE) to present the results of LTM and remedial actions completed in 2011 for the Building 35 AOC at the Former Griffiss AFB.

3. We would appreciate review comments by April 20, 2012 so that project schedules and performance milestones can be maintained in accordance with this PBR Contract.

4. Should you have any questions or concerns please contact me at 315 356 0810 ex 202.

MICHAEL F. MCDERMOTT
Air Force Center for Engineering and the Environment – AFCEE/EXC Griffiss

Attachments: As noted

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FINAL

2011 MONITORING REPORT
SS060 (BUILDING 35 AREA OF CONCERN)

FORMER GRIFFISS AIR FORCE BASE SITE
ROME, NEW YORK

Prepared for:

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Contract Number FA8903-10-D-8595/
Delivery Order 0014

March 2012

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LIST OF ACRONYMS AND ABBREVIATIONS

AFB	Air Force Base
AFCEE	Air Force Center for Engineering and the Environmental
AFRPA	Air Force Real Property Agency
AOC	Area of Concern
bgs	below ground surface
CAPE	CAPE Environmental, Inc.
COC	Contaminant of Concern
CQCR	Chemical Quality Control Report
DCE	dichloroethylene/dichloroethene
DRMO	Defense Reutilization Marketing Office
FPM	FPM Remediations, Inc.
ft	feet
HRC®	Hydrogen Release Compound
HWSA	Hazardous Waste Storage Area
LTM	long term monitoring
LUC/ICs	Land Use Control/ Institutional Controls
MSL	mean sea level
µg/L	micrograms per liter
mg/L	milligrams per liter
NYSDEC	New York State Department of Environmental Conservation
OHM	OHM Remediation Services Corporation
PCB	polychlorinated biphenyl
PCE	tetrachloroethylene/perchloroethylene/tetrachloroethene/perchloroethene
ppm	parts per million
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act of 1976
SS	Spill Site
SVOC	semi-volatile organic compound
TCE	trichloroethylene/trichloroethene
TOC	total organic carbon

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

UICP	Underground Injection Control Program
USEPA	United States Environmental Protection Agency
VC	Vinyl Chloride
VOC	volatile organic compound

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1 INTRODUCTION

FPM Remediations, Inc. (FPM), in association with CAPE Environmental, Inc. (CAPE) under contract with the Air Force Center for Engineering and the Environment (AFCEE), is conducting a groundwater monitoring program at Spill Site (SS) 060 [Building 35 Area of Concern (AOC)] at the former Griffiss Air Force Base (AFB), New York (Figure 1-1). The Building 35 AOC is illustrated in Figure 1-2. The monitoring program at the site is conducted in accordance with provisions of the Basic Contract # FA8903-10-D-8595 and Delivery Order # 0014.

This annual report has been prepared to provide the groundwater monitoring data from June 2011 and to discuss the July 2011 groundwater remediation activities. Groundwater sampling and remediation was conducted in accordance with the SS060 (Building 35 AOC) Optimization Plan (FPM/CAPE, July 2011).

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2 SS060 (BUILDING 35 AOC)

2.1 SITE LOCATION AND HISTORY

Building 35 was located in the southeast-central section of the base (Figure 1-2), near an area that was used for outside storage of drums and scrap material during the 1940s. An unknown quantity of drums and transformers were also stored in this area during the late 1960s and 1970s. Site closure was a requirement under the Building 35 Resource Conservation and Recovery Act (RCRA) Hazardous Waste Storage permit and the closure activities were performed in the late 1990s (OHM Remediation Services Corporation [OHM], July 1997).

The former Hazardous Waste Storage Area (HWSA) was located in the southwest corner of Building 35 and had dimensions of approximately 30 feet (ft) by 50 ft or 1,500 square feet. Although a hazardous waste inventory is not available for the area, the area was assumed to contain waste associated with aircraft maintenance activities such as corrosion control painting, degreasing, and routine engine, wheel and tire services. There is no record of any spills at the HWSA.

The former polychlorinated biphenyl (PCB) storage area was located in the northwest corner of Building 35 and had approximate dimensions of 37 ft by 46 ft (1,702 square ft). Inspection reports indicate that PCB items were stored in the area since at least 1985. A spill in the PCB area was recorded on October 25, 1991, when approximately one quart of transformer oil leaked from a damaged terminal to part of a wooden pallet and a 2-inch diameter area on the concrete floor. The oil was tested and was reported below 5 parts per million (ppm) PCBs. Base records also indicate that a small PCB spill occurred on March 16, 1995. This spill reportedly occurred when a PCB-containing transformer was moved from the containment area within Building 35. The spill area, approximately 20 square ft in area, was properly remediated.

2.2 HYDROGEOLOGICAL SETTING

The Building 35 complex covered an approximate 1 acre area and is now utilized as a parking lot for Birnie Bus Service, Inc. The site has a topographic relief of 3 to 4 ft. The soils are predominantly composed of silty, fine to coarse sands with gravel. Surface water drainage from the site enters a shallow drainage swale, which leads southerly to a culvert drainage ditch informally referred to as Rainbow Creek, and ultimately flows east to Six Mile Creek.

During the Building 35 RCRA closure activities, groundwater elevations were recorded in May and July 1998. The depth to groundwater was approximately 6.9 to 7.2 ft below ground surface (bgs) [approximately 456.4 – 456.1 ft mean sea level (MSL)]. Groundwater contours interpreted from ground water elevation data collected show the groundwater flow direction to be northeast in 1998 (OHM, April 2000). This groundwater flow direction was confirmed during the subsequent March 2002, March 2003, and June 2004 sampling rounds.

It was noted in the reports from the April 2010 sampling event that monitoring well B035MW-4 water level measurement could not be obtained due to riser deformation. The well riser was hit by a snowplow during the winter season, which bent the riser. The riser was excavated and the

well head was reconstructed as a flush mount. The three remaining wells at the site were also reconstructed as flush mounts when the parking lot was paved for use as a bus storage lot for the building tenant, Birnie Bus Services. All monitoring wells (B035MW-1, -2, -3, -4) at the site were resurveyed on July 13, 2010, and depth to groundwater was also measured on this date. The groundwater flow changed from previous sampling events where the hydraulic gradient is minimal with a general southerly flow. Monitoring well B035MW-4 is exhibiting recharge from two adjacent 48-inch storm drains. Therefore the hydraulic grade at this point is the highest. Also, the other wells are in a paved parking lot allowing for minimum infiltration from surface water runoff. The depths to groundwater were measured on August 26, 2011 at monitoring wells B035MW-1, -2, -3, and -4. The mean depth was 6.2 ft bgs. Groundwater elevations for each well and the interpreted potentiometric surface map are provided in Figure 2-1.

2.3 SUMMARY OF PREVIOUS INVESTIGATIONS

Closure activities for the HWSA and PCB areas in association with RCRA New York State Department of Environmental Conservation (NYSDEC) Permit #6-3-13-00063/00020-0 were conducted by OHM in 1996 in accordance with Closure Plans approved by the NYSDEC in 1995. The Closure Plans were designed to ensure that the Building 35 storage areas would require no further maintenance after clean closure, and threats to human health and the environment would be minimized or eliminated. The closure activities included the collection of pre-closure wipe samples from each storage area and surface soil samples (0 to 1 ft bgs) from the outside perimeter of the building. Twelve surface soil samples were analyzed for PCBs, and all twelve samples indicated elevated concentrations of PCBs above the recommended action level of 1 ppm (OHM, July 1997).

An extensive soil investigation was conducted from January to March 1997 to delineate the extent of contaminated soil in the vicinity of Building 35 that were above the cleanup levels, which were established at 1 ppm in surface soil and 10 ppm in subsurface soil to meet United States Environmental Protection Agency (USEPA) and NYSDEC guidelines. A total of 140 Geoprobe® borings were installed in both the surface and subsurface soils surrounding Building 35, including three borings advanced underneath the building floor. Soil samples were analyzed for total PCBs in the field using a gas chromatograph with an electron capture detector. In addition, eight groundwater samples were collected during the Geoprobe® activities, and were analyzed for total PCBs, Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), pesticides, and metals (OHM, July 1997).

Results indicated widespread PCB contamination throughout the subsurface soils and also indicated possible groundwater contamination. Soil detections for PCBs ranged from non-detectable levels to 3,079 ppm. Several hot spots were identified during the investigation, with PCB concentrations recorded above regulatory action levels at a depth interval of 6 to 7 ft bgs. No correlation was found between PCB concentration and sample depth nor between PCB concentration and distance from the building, indicating that the contamination may have been due to numerous sources, or the result of using imported fill at the site which potentially contained PCBs (OHM, July 1997).

Of the eight groundwater samples collected, seven indicated PCB concentrations above the PCB action level (0.1 micrograms per liter [µg/L]). The highest total PCB concentration (210 µg/L) was reported from sample B035-GW05, located near the southeast corner of Building 35. No VOCs or SVOCs were detected above regulatory action levels. Two pesticides, dieldrin and endrin, and several metals were detected at concentrations above action levels. Two chlorinated VOCs, total 1,2-dichloroethylene (DCE) at 5 µg/L, and vinyl chloride at 1 µg/L, were also reported above detection limits at B035-GW07. Results indicated that previous waste storage activities had potentially impacted the local groundwater conditions, but were inconclusive as the Geoprobe® samples collected were characterized with high suspended solids content, which is associated with higher concentrations of pesticides and metals due to the adsorption of these contaminants to fine particulates (OHM, July 1997).

An Interim Remedial Action was conducted in 1997 at the adjacent Defense Reutilization Marketing Office (DRMO) Area. The interim remedial action was performed to excavate, transport, and dispose of PCB-contaminated soil and debris, and backfill the area with clean soil. Building 35 was also demolished during this action. Following excavation at the DRMO Area, 82 confirmatory samples were collected using a sampling grid system comprised of 82 grid cells. Twenty seven (27) of the 68 grids had PCB exceedances. Three additional rounds of soil excavation occurred; where in total 130 confirmatory samples were collected. Confirmatory samples were compared to state recommended cleanup levels, where values were taken from the NYSDEC Technical and Administrative Guidance Memorandum 4046. All values are reported in Table 3.1-2 DRMO Area Confirmatory Sample Results Summary of Positive Hits and Validation Qualifiers, Appendix E of the Closeout Report Interim Remedial Action DRMO Area (IT, May 1999). Approximately 24,414 tons of PCB-contaminated soil/concrete were removed from the DRMO Area during the IRA. An estimated 20,078 tons were disposed of off-site as non-hazardous soil/concrete, and 4,336 tons as hazardous soil.

In Spring 1998, OHM installed four groundwater monitoring wells within the Building 35 area to characterize groundwater conditions and to determine the local groundwater flow direction. B035MW-4 is located near the intersection of two storm drains within the site boundaries – two 48-inch storm drains running from the northwest to the southeast near the northeast corner of the former Building 35 footprint and one 30-inch drain running perpendicular from the southwest to the two 48-inch drains – to assess any impacts the storm drains might have on groundwater flow. B035MW-3 is located near the highest concentration of PCBs detected in the soil samples, which was the same location with the highest PCB concentration in groundwater samples collected with the Geoprobe®. B035MW-1 and -2 are located north and southwest of Building 35, respectively. The total depth of each well is approximately 14 ft bgs. These wells are the current wells that have been monitored throughout site long term monitoring activities.

Two groundwater monitoring rounds were conducted in May and July 1998, when samples were submitted for PCBs, VOCs, SVOCs, pesticides, and metals analyses. Results indicated two VOCs – vinyl chloride (VC) and total 1,2-DCE (including both the cis and trans isomers) – at levels above NYS Class GA Groundwater Standards in B035MW-4; total 1,2-DCE only was reported above the NYS Class GA Groundwater Standard in B035MW-3 (8 µg/L). Concentrations were reported up to 6 µg/L and 42 µg/L for vinyl chloride and 1,2-DCE, respectively, both in B035MW-4. No PCBs were reported above the detection limit during

either sampling round (1 µg/L [2 µg/L for arochlor 1221] for May 1998 and 0.06 µg/L for July 1998) (OHM, April 2000).

In addition, during the two groundwater sampling rounds, several metals were reported at levels above NYS Class GA Groundwater Standards, including iron, manganese, sodium, lead, antimony, copper, zinc, chromium, arsenic, and thallium. Samples were collected using a disposable bailer and were submitted as unfiltered groundwater samples for total metals analysis.

In accordance with the closure requirements under the RCRA Permit for Building 35, threats to human health and the environment have been minimized or eliminated (i.e., source areas have been removed). In addition, Land Use Control/Institutional Controls (LUC/ICs) were implemented at the site (OHM, April 2000). Closure under the RCRA Permit was approved by the NYSDEC in a letter dated December 8, 1999. The LUC/ICs are inspected annually and reported in a separate report. Additionally, groundwater monitoring was implemented at the site in 2002 as part of the On-Base Groundwater AOCs.

2.4 LONG TERM MONITORING (2002 TO 2010)

FPM performed Long Term Monitoring (LTM) in March 2002, March 2003, June 2004, March 2005, March 2006, April 2007, April 2008, March 2009, and April 2010. From March 2002 to June 2004, the groundwater at the Building 35 site was monitored for VOCs (SW8260 AFCEE QAPP 3.1 List), SVOCs (SW8270 AFCEE QAPP 3.1 List), and total and dissolved metals (SW6010 AFCEE QAPP 3.1 List plus lead and mercury) at monitoring wells B035MW-1, -2, -3, and -4. VOC concentrations were detected above NYS Class GA Groundwater Standards at only B035MW-4. No SVOCs were detected. Total metals analysis was performed on groundwater that contained suspended solids and dissolved metals analyses were performed on the groundwater after filtration removed the suspended solids. SVOC and metals analysis were discontinued after June 2004.

The recommendations in the Revised On-Base Groundwater Report (FPM, November 2004) were implemented during the March 2005 sampling round, and included only one well (B035MW-04) which was sampled for VOCs only. The VOC results indicated two exceedances as opposed to past sampling rounds which indicated one exceedance. The two exceedances included cis-1,2-DCE and vinyl chloride (VC). The cis-1,2-DCE concentrations ranged from 7.8 µg/L to 32 µg/L and the VC concentrations ranged from 0.54 µg/L to 3.03 µg/L. The NYS Class GA Groundwater Standard for cis-1,2-DCE and VC are 5 µg/L and 2 µg/L, respectively.

2.5 GROUNDWATER REMEDIATION (2005, 2006, 2008, AND 2011)

Based on LTM sampling results, direct injection of remedial compounds was performed at the site in efforts to remediate COCs. The purpose of the direct injection activities is to degrade and remediate the chlorinated hydrocarbon plume at the site. The following describes the four injections conducted at the site.

Injection 1: Hydrogen Release Compound (HRC®) releases lactic acid for fermentation by microorganisms producing hydrogen as an electron donor. Hydrogen then degrades chlorinated

hydrocarbons. HRC® was injected in December 2005 at the Building 35 AOC in a 50-ft wall with five injection points. HRC® was injected from 20 to 10 ft bgs at a rate of eight pounds of product per foot at each of the injection points.

Injection 2: HRC® was injected in August 2006 at the Building 35 AOC in two 50-ft walls with five injection points. HRC® was injected from 20 to 10 ft bgs at a rate of eight pounds of product per foot.

Injection 3: Newman Zone® releases emulsified vegetable oil for fermentation by microorganisms producing hydrogen as an electron donor. Hydrogen then degrades chlorinated hydrocarbons. Newman Zone® was injected at two percent solution in December 2008 in monitoring well B035MW-4 at the Building 35 AOC. 1,000 pounds of product was injected.

The first three injections were recommended in the LTM reports, including August 2005 Groundwater Monitoring Report (FPM, August 2005) for the December 2005 injection, August 2006 Groundwater Monitoring Report (FPM, August 2006) for the August 2006 injection, and May 2008 Groundwater Monitoring Report (FPM, May 2008) for the December 2008 injection. The injection activities were summarized in the On-base Groundwater AOCs Monitoring Report (August 2006), (August 2007), and (August 2009), respectively.

Injection 4: 640 pounds of Newman Zone® was injected at the Building 35 AOC on July 6 and 7, 2011 in accordance with the Draft-Final SS060 (Building 35 AOC) Optimization Plan (FPM/CAPE, July 2011). Newman Zone® solution (two percent solution) was injected at four injection points positioned in a 15-foot arc southwest of B035MW-4. The injection points are illustrated on Figure 2-1. For the 2011 injection event the Newman Zone® solution consisted of 16 gallons of Newman Zone® to 984 gallons of water. At each injection point, Newman Zone® solution was injected in 1-foot intervals from 16 to 8 ft bgs. The photos and field book notes from this event are provided in Appendix A. The injection points utilized for this injection event were registered with the USEPA Underground Injection Control Program (UICP). This documentation is also provided in Appendix A.

2.6 GROUNDWATER MONITORING (2011)

Groundwater samples were collected from B035MW-4 and analyzed for the VOCs as identified during previous investigations in June 2011. Both existing data and the information from new sampling are utilized for overall performance evaluation. Sample collection and analysis was conducted in accordance with the Draft-Final Uniform Federal Policy Quality Assurance Project Plan (QAPP), Revision 1.0 (FPM, July 2011).

Daily Chemical Quality Control Reports (CQCRs) completed during the June 2011 sampling round are provided in Appendix B. The complete list of analytes and the validated laboratory data are attached in Appendix C and the raw laboratory data are available in Appendix D. The analytical results for compounds detected in the groundwater at the Building 35 AOC are shown in Table 2-1.

June 2011:

Monitoring well B035MW-4 was the only well sampled during the June 2011 sampling round. Analyses were performed for VOCs and alkalinity, chloride, nitrate, sulfate, and total organic carbon (TOC) to evaluate groundwater chemistry. Groundwater depth measurements were also collected at the four site monitoring wells (B035MW-1, -2, -3, and -4). The measurements showed that the groundwater was flowing to the northeast.

Analytical results indicated that cis-1,2-DCE (15 µg/L) and VC (4.3 µg/L) exceeded regulatory levels. The NYSDEC Class GA Groundwater Standards for cis-1,2-DCE and VC are 5 µg/L and 2 µg/L, respectively. Trichloroethene (TCE) and trans-1,2-DCE were below their respective NYSDEC Class GA Groundwater Standards of 5 µg/L. This sampling round is the first time Perchloroethene (PCE) was not detected.

Groundwater chemistry results indicated an increase in chloride concentration from 96 milligrams per liter (mg/L) in April 2010 to 230 mg/L in June 2011, sulfate also increased from 11 mg/L in April 2010 to 14 mg/L in June 2011, and TOC decreased from 1.9 mg/L in April 2010 to 1.5 mg/L in June 2011.

2.7 CONCLUSIONS

Groundwater sampling results trends indicate that the 2008 Newman Zone® injection is continuing to promote enhanced biological breakdown of chlorinated hydrocarbons. Reductive dechlorination is exhibited by the increase in VC, the daughter compound to cis-1,2-DCE. Also, PCE was not detected this sampling round, where PCE is the parent product of chlorinated hydrocarbons. The VC and cis-1,2-DCE concentrations from 2002 to 2011 are illustrated in Figure 2-2.

Additionally, the most recent round (June 2011) which is consistent with the previous sampling round (April 2010) indicate that the Newman Zone® injection is subsiding due to the decreased TOC levels. The carbon source appears to have been utilized, promoting reductive dechlorination. TOC levels have also been plotted on Figure 2-2 which shows the decrease in TOC levels following the 2008 injection event.

Following the 2008 Newman Zone® injection in monitoring well B035MW-4, the monitoring well exhibited a type 1 environment (groundwater systems that are highly anaerobic due to high levels of organic carbon). However, the site is now exhibiting a type 2 environment (groundwater systems that are mildly anaerobic due to moderate levels of organic carbon). An indicator of this is an increase in sulfate concentrations. Sulfate levels have increased, from 11 mg/L in April 2010 to 14 mg/L in June 2011. The increase is attributed to the decrease in active sulfur reducing bacteria which are prominent in anaerobic environments (AFCEE, August 2004).

2.8 RECOMMENDATIONS

A carbon source injection occurred in July 2011which will result, if successful, in changing the environment to a type 1 environment which is conducive for the dechlorination of the residual

contamination. It is recommended to continue monitoring on an annual basis (summer) at monitoring well B035MW-4 to confirm the effectiveness of this injection. Table 2-2 provides the Building 35 AOC groundwater sampling and analytical results summary.

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3 REFERENCES

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Figures

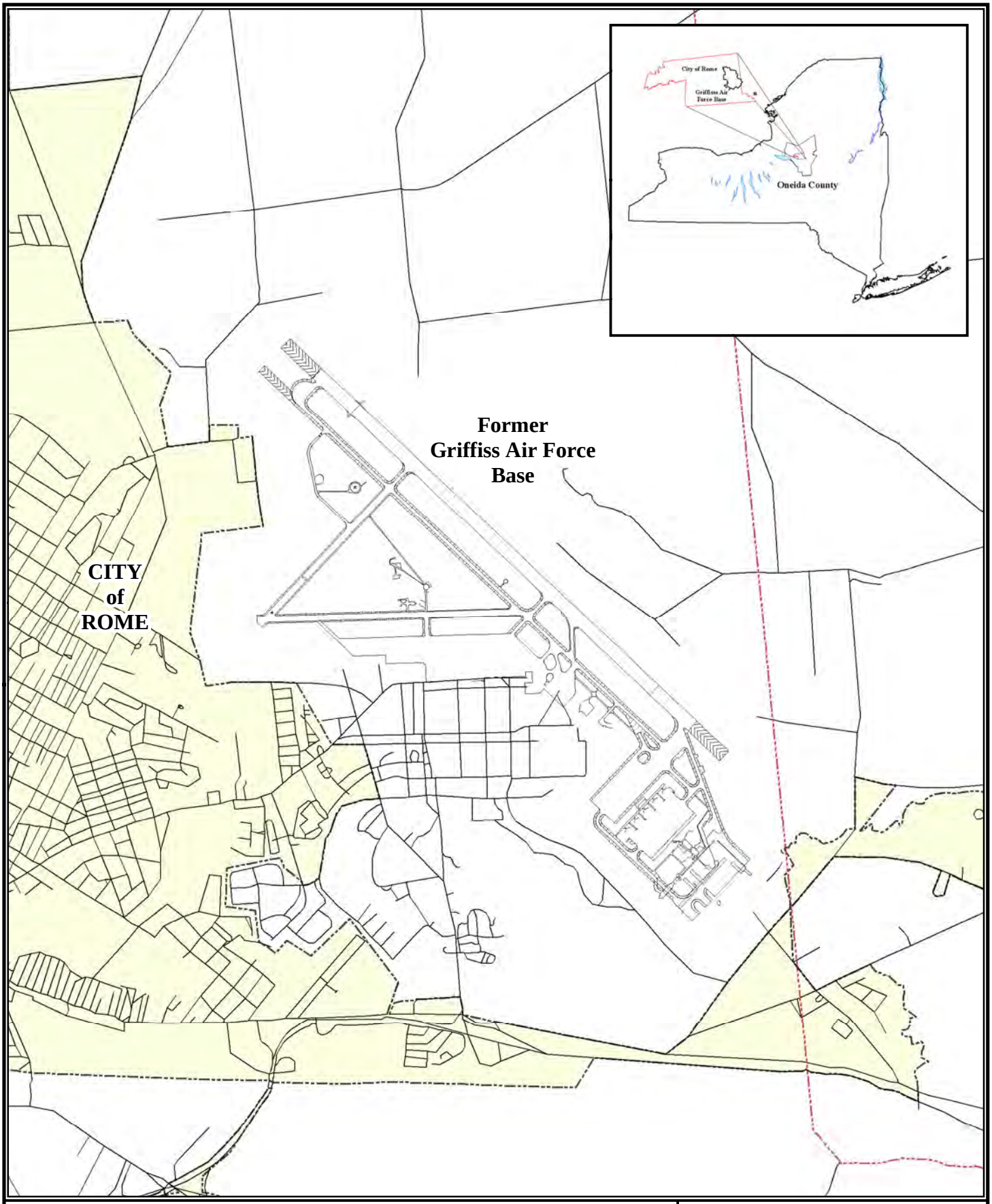


FIGURE 1-1
Base Location Map

N

2,500 1,250 0 2,500

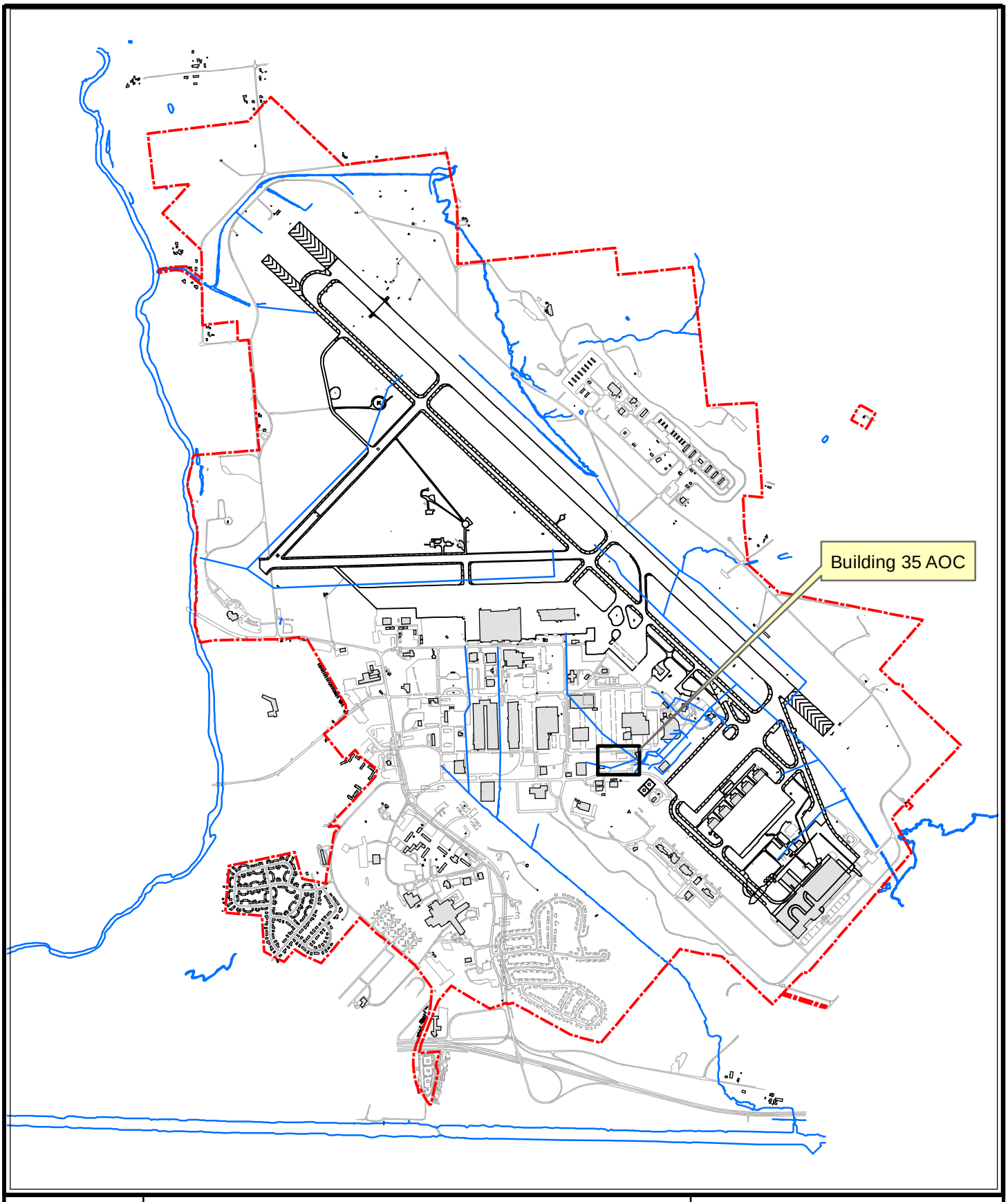
Feet

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

FPM Remediations, Inc.

CAPE

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Site Location

Legend

Boundary
Hydro
Airfield
Road

Facilities

Existing
Demolished

N

790 395 0 790 1,580 Feet

United States Air Force
Former Griffiss Air Force Base
Rome,New York

Figure 1-2
Building 35 AOC
Location Map

FPM Remediations, Inc.

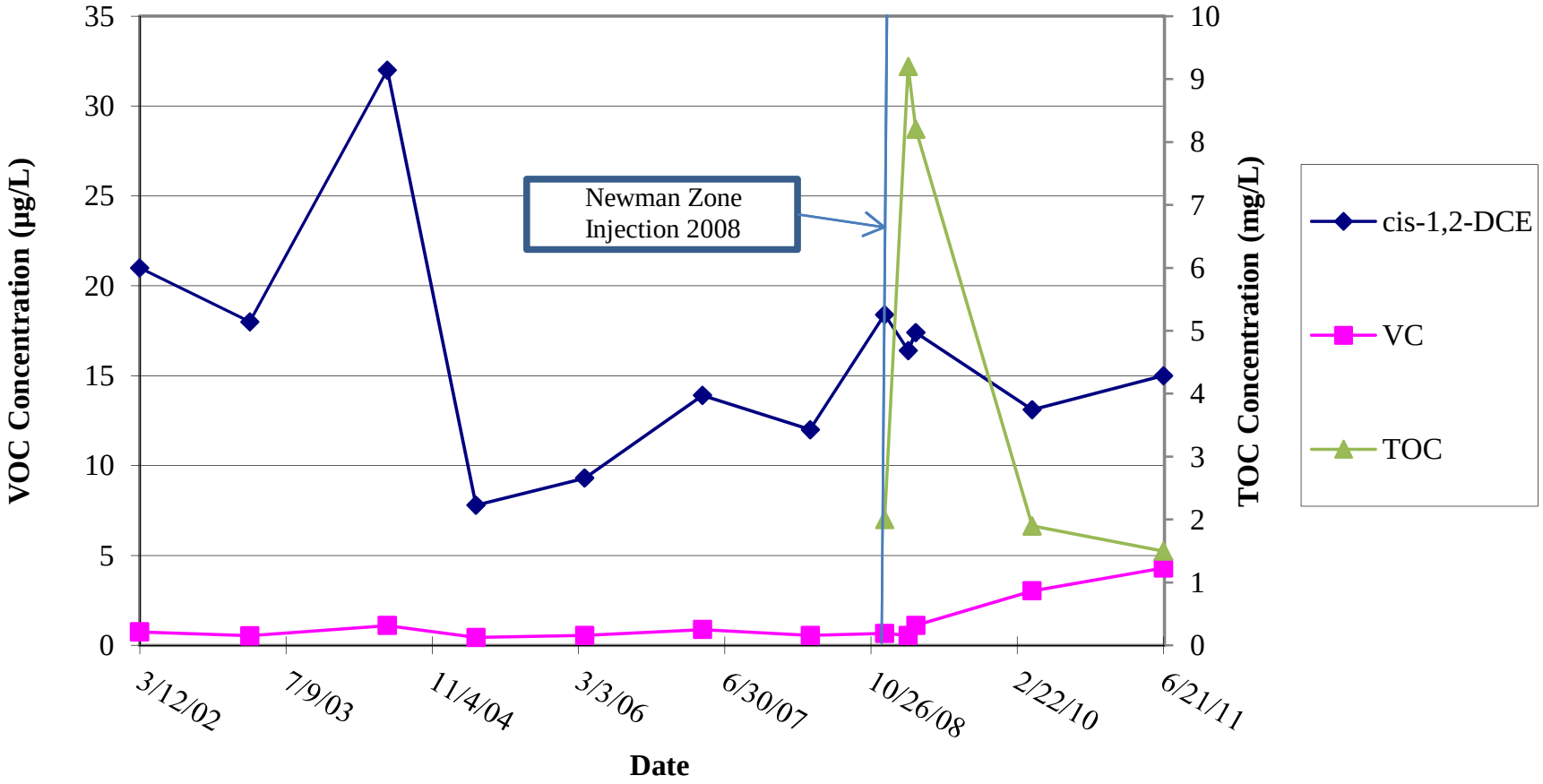
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Figure 2-2
VOC Trends at Monitoring Well B035MW-4



Tables

Table 2-1

Building 35 AOC Groundwater Sampling Results

Sample Location	**NYSDEC Class GA Groundwater standards and guidances (µg/L)**	**B035MW-4**						
Sample ID		**B035M0415AA**	**B03M0415BA**	**B035M0415CA**	**B035M0415DA**	**B035M0415EA**	**B035M0416FA**	**B035M0416GA**
Date of Collection		**3/12/2002**	**3/11/2003**	**6/9/2004**	**3/29/2005**	**3/24/2006**	**4/18/2007**	**4/8/2008**
Sample Depth (ft TOIC)		**15**	**15**	**15**	**15**	**15**	**16**	**16**
VOCs (µg/L)								
acetone	5	U	U	1.8 F	N/A	N/A	N/A	N/A
cis-1,2-dichloroethylene	5	**21**	**18**	**32**	**7.8**	**9.3**	**13.9**	**12**
tetrachloroethylene (PCE)	5	0.84	0.82	0.81 F	0.63	0.66	0.42 F	0.32 F
trans-1,2-dichloroethylene	5	0.37 F ^	0.22 F	0.69 F	U	U	0.39 F	0.31 F
trichloroethylene (TCE)	5	0.75 F ^	0.55	0.97 F	0.28 F	0.35 F	0.35 F	0.25 F
vinyl chloride	2	0.75	0.54	1.1	0.45 F	0.55	0.88 F	0.56 F
Wet Chemistry Data (mg/L)								
Alkalinity	--	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Chloride	250	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Nitrogen, Nitrate	10	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Sulfate	250	N/S	N/S	N/S	N/S	N/S	N/S	N/S
TOC	--	N/S	N/S	N/S	N/S	N/S	N/S	N/S

Table 2-1

Building 35 AOC Groundwater Sampling Results

Sample Location	**NYSDEC Class GA Groundwater standards and guidances (µg/L)**	**B035MW-4**						
Sample ID		**B035M0416HA <>**	**B035M0416GB**	**B035M0416HA**	**B035M0416IA**	**B035M0416JA**		
Date of Collection		**12/10/2008**	**2/26/2009**	**3/24/2009**	**4/13/2010**	**6/21/2011**		
Sample Depth (ft TOIC)		**16**	**16**	**16**	**16**	**16**		
VOCs (µg/L)								
acetone	5	N/A	N/A	N/A	N/A	U		
cis-1,2-dichloroethylene	5	**18.4**	**16.4**	**17.4**	**13.1**	**15**		
tetrachloroethylene (PCE)	5	0.52 F	0.59 F	0.62 F	0.21 F	U		
trans-1,2-dichloroethylene	5	0.36 F	0.4 F	0.38 F	0.46 F	0.52 F		
trichloroethylene (TCE)	5	0.45 F	0.51 F	0.52 F	0.39 F	0.38 F		
vinyl chloride	2	0.67 F	0.55 F	1.11	**3.03**	**4.3**		
Wet Chemistry Data (mg/L)								
Alkalinity	--	280	290	280	270	210		
Chloride	250	2.4	60 J	73	96	230		
Nitrogen, Nitrate	10	U	U	U	U	U		
Sulfate	250	13	1.4	2.7	11	14		
TOC	--	2.0	9.2	8.2	1.9	1.5		

Data Qualifiers and Table Notes

Qualifier/Table Note	Definition
F	The Analyte was detected above the method detection limit but below the reporting limit.
ft	Feet
J	The Analyte was positively identified; the quantitation is an estimation.
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter
N/A	not analyzed
N/S	not sampled
TOIC	Top of Inner Casing
U	The Analyte was analyzed for, but not detected.
--	Indicates no NYS Class GA Groundwater Standard.
^	Concentrations are from duplicate sample, which was greater that the primary sample.
<>	Sample was not included in the annual sampling round, sample was collected to monitor groundwater before and after Newman Zone® injections.
X	Bold and red indicates an exceedance of the NYS Class GA Groundwater Standards.

Table 2-2
Building 35 Groundwater Sampling and Analysis Summary

Sampling Locations	Sampling Rationale	Target Analytes / Method Numbers	Sampling Frequency	Evaluation Criteria / Modification Justification
Annual (2011) Recommendations				
B035MW-4	Downgradient of potential source	VOCs – SW8260 Groundwater Chemistry - Alkalinity – SM2320B, Chloride - SW9056 Nitrate – SW9056, Sulfate – SW9056, and TOC – SW9060	Annual	Continue to verify the cis-1,2- DCE attenuation. Analysis for VOCs (chlorinated ethenes short list only) will occur annually, after which the results will be evaluated to assess future monitoring frequency.
Recommended LTM Network Changes				
None				

Table 2-2 (Continued)
Building 35 Groundwater Sampling and Analysis Summary

Historical LTM Network Changes				
July 2004				
Analysis / Frequency Changes				
B035MW-4	Downgradient of potential source	VOCs – (Specified COC Short List) / SW8260 COCs - PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and VC.	Annual	Continue in the monitoring network to verify the attenuation of cis-1,2-DCE. Analysis for VOCs (chlorinated ethenes shortlist only) will occur for four rounds, after which the results will be evaluated to assess future monitoring frequency. Discontinue sampling for SVOCs since no detections have been reported in any sampling round. Discontinue metals sampling at the Building 35 Site since none of the reported exceedances can be attributed specifically to the site.
Removed Sampling Location				
B035MW-1	Upgradient		Discontinued from annual basis.	Discontinue sampling based on no reported exceedances.
B035MW-2	Crossgradient			
B035MW-3	Potential Source Area			

Appendix A
2011 Injection Photos, Field Book Notes, UICP Permit

Building 35 AOC 2011 Newman Zone® Injections - PHOTOGRAPHIC LOG		
2011 Monitoring Report **Installation former Griffiss Air Force Base**	**AFCEE – Rome District**	**Contract No. FA8903-10-D-8595** **Delivery Order 0014**

Photo No. 01	**Date: 07/07/11**

Description:

50 Gallon drums to combine water and Newman Zone® at 2% for injection solution. Water source is pumped from nearby fire hydrant from the City of Rome municipal water supply.



Photo No. 02	**Date: 07/07/11**

Description:

Double diaphragm pump to pump solution through the 2 ½ - inch Geoprobe® rods. Approximate pump rate is 5 to 6 gallons per minute.



Building 35 AOC 2011 Newman Zone® Injections - PHOTOGRAPHIC LOG		
2011 Monitoring Report **Installation former Griffiss Air Force Base**	**AFCEE – Rome District**	**Contract No. FA8903-10-D-8595** **Delivery Order 0014**

Photo No. 03	**Date: 07/07/11**

Description:

Borehole entrance to inject solution. 2 ½-inch Geoprobe® rods with expendable point directly pushed to 16 ft bgs. Rods pull back to 15 ft bgs to begin injection.

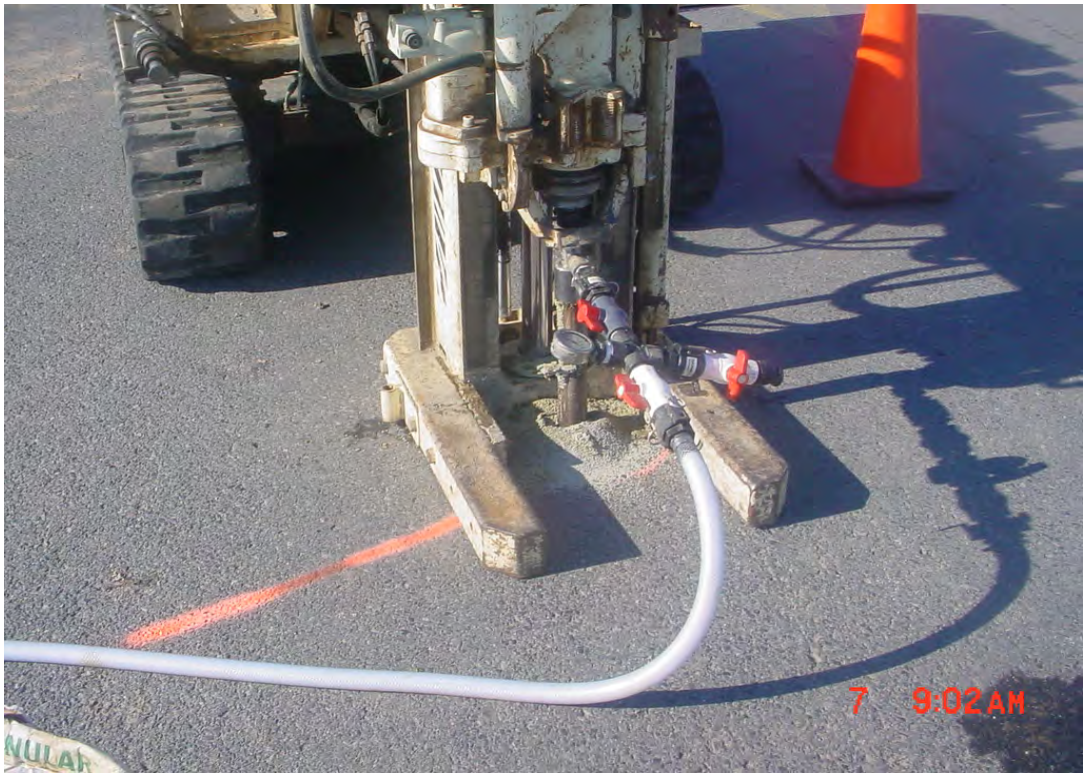


Photo No. 04	**Date: 07/07/11**

Description:

Completed borehole in asphalt parking lot. Three other points located in grass.



Location 335 Date 7.6.11

Project / Client DP

0738 Arr. @ FRM and start loading equip for injection

0750 Prepare to go to Aaron

0820 Zebra drilling on-site JP (FRM) Goes to site

0830 Kleinfelder Water Dept on site for hydrant access.

335 MW-4 TD @ 6.22

- Zebra finishes loads equip and connects to hydrant

0900 Have slight modified layout due to utility issues

- Begin mixing solution at 2% Neamon Zone to water

- Each lineal foot will receive 125 gal @ 2% solution.

Location 335 Date 7.6.11

Project / Client JP

2½" rods pushed to 16ft @ BH2 (south of MW-4)

Rods pulled back to 15 ft.

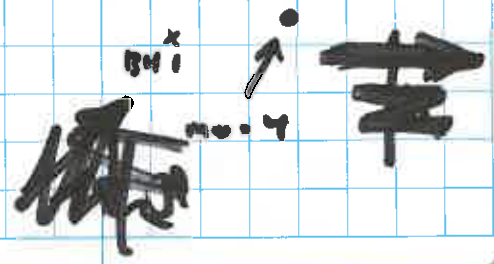
Begin pumping and time for flow rate + mixing rate

water delivery is 6.66 gals per min.

establish discharge rate to equal delivery rate

Parking lot

BH2 BH3 BH4



Location B35 Date 7.6.11

Project / Client JP

water + mixture are blended in a 50 gal drum w/ 6al of solution (27%)

alternating between each drum (2)

Each Borehole will have 125 gals pumped into each 5' interval of bore hole (8ft of injection)

1000 gals @ 27% mixture

Material is pumped from bottom up

16 - 15', 15-14', 14-13', 13-12'
12 - 11', 11 - 10' 10-9', 9-8'

1300 BH 1 is completed and moved to BH 2
- MW-4 - TOC - 6.19
- Rods are pushed to 16'

Location B35 Date 7.6.11

Project / Client JP

and pulled back to 15'

Pumping of solution begins w/ same procedures as BH 1

1605 complete pumping @ BH2

MW-4 TOC - 6.19

Pick up equip. + unhook hydrant for night

1630 Return to FPM unload equip.

1700 End of Day

7.6.11

Location B35 Date 7.7.11

Project / Client

70
sun/80°

0715 Arr. @ Fln

load equip from storage area

0730 Arr. @ B35 - Zebra on site

Set up all necessary water and mixing area

0745 Drive point BH-3 to 16'/pull back to 15 and proceed the same as prior day

B35mw-4 - Tolc 6.22

0755 Start pumping solution @ 2% concentration

Location B35 Date 7.7.11

Project / Client

70
sun/80°

0815 Frank from Bionic Arr. facilities stops by to check progress

0825 Bionic facilities leaves

1000 JP Cons. & Bionic facilities to discuss alternating traffic pattern for BH-4

1015 Facilities on site to look at situation

OK: lane closure @ 10:15 AM

1055 Complete Borehole 3 @ 2%

* (3hrs pumping ~ 5.56 gpm)

Location B35 Date 7.7.11

Project / Client JP

sun / 80°

Remove tooling from ground + mob to BH-4 (TRAFFIC lane has been closed)

B35MW-4 TOIC 6.20

BH-4 Drive tools to 16'- pull back to 15 and proceed as before.

1106 Start pumping solution at BH-4.

1351 Pumping @ BH-4 complete pull rods and flush lines on equip.

Location B35 Date 7.7.11

Project / Client JP

sun 80°

all boreholes were abandoned using granular bentonite + 3 locations were surfaced w/ black top repairs (3+4)

Clean up all materials + shut down hydrant per Rome Water Dept. instructions

1430 Back to FPM unload all equip + salvage

1600 End of Day

7.7.11

FPM group — Engineering and Environmental Science

FPM Group, Ltd.
FPM Engineering Group. P.C.
formerly Fanning, Phillips and Molnar

584 Phoenix Drive
Rome, NY 13441
(315) 336-7721
Fax (315) 336-7722

June 9, 2011

United States Environmental Protection Agency
Region 2
209 Broadway
New York, NY 10007-1866

RE: **Injection Points at Building 35 On-Base Groundwater Area of Concern, former Griffiss Air Force Base, Rome, NY**

Dear Frank Brock:

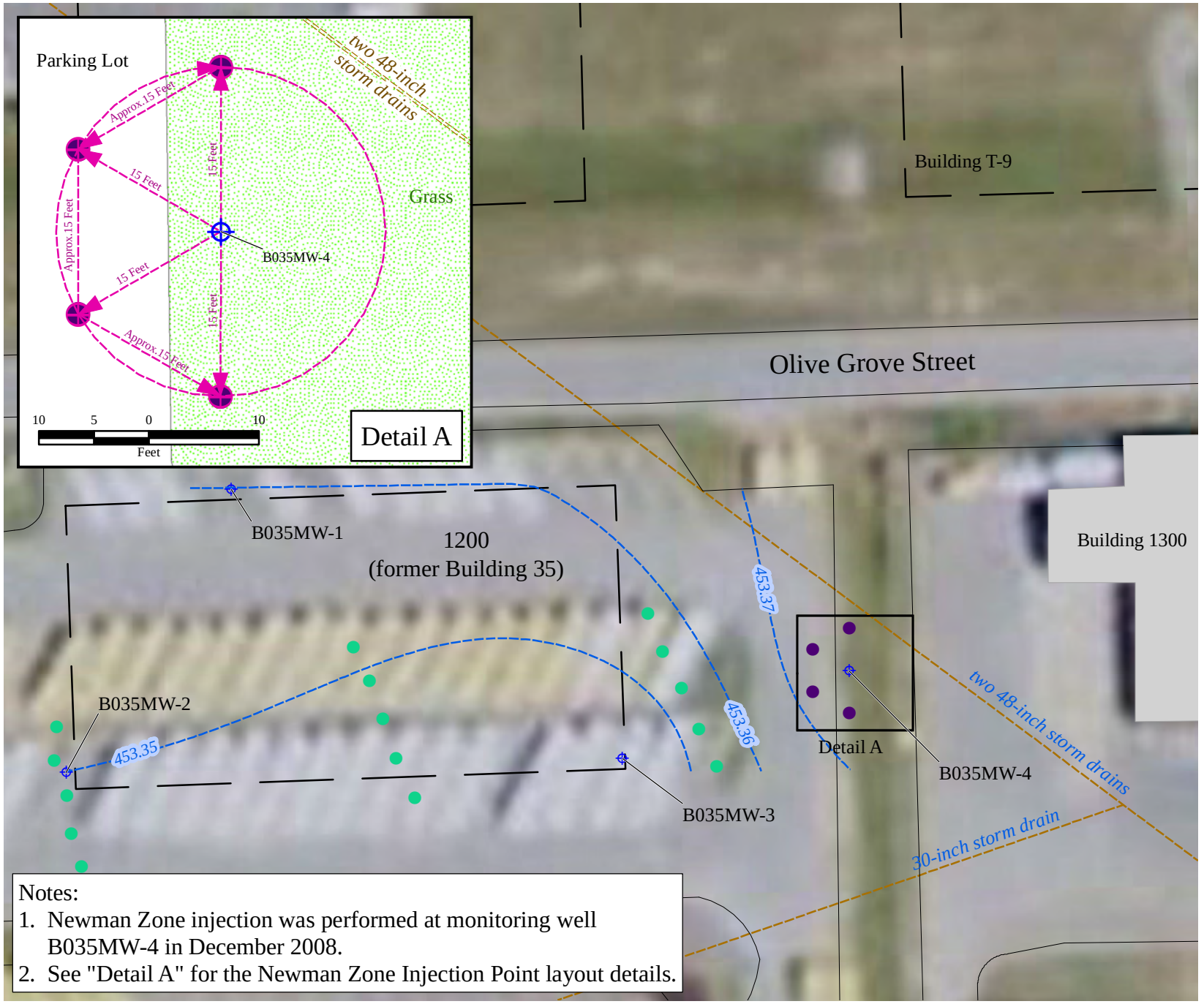
FPM is proposing injection points associated with the above referenced project. The work is part of the Long Term Monitoring Program managed by the Air Force Center for Engineering and the Environment (AFCEE). The goal is to remediate a contaminated groundwater plume where contaminate of concern is chlorinated solvents. The site location is shown in the attached figure, Figure 2-1 Building 35 AOC Site Location Map. Building 35, approximately 1 acre in size, is currently a parking lot for Birnie Bus Service, Inc. The soils are predominantly composed of silty, fine to coarse sands with gravel. It is anticipated that the work will be performed July 5 and 6, 2011.

The anticipated work consists of four temporary injection points, orientated with an arc shape surrounding B035MW-4, and a 15 feet spacing. Two points are anticipated to be in the parking lot and two points in the grass. The material being injected is 2% Newman Zone® by volume, with a total volume of 3,750 gallons. The volume per point is 937.5 gallons. The injection depth is 16 to 8 feet below grade.

Should you have any questions of require additional information, please call Katrina Mattice at 315-336-7721 ext 212 or email at k.mattice@fpm-remediations.com.

Sincerely,
Katrina Mattice
Katrina Mattice, EIT
Associate Engineer

Enc. Figure 2-1, Inventory of Injection Wells



Notes:
1. Newman Zone injection was performed at monitoring well B035MW-4 in December 2008.
2. See "Detail A" for the Newman Zone Injection Point layout details.

N

Site Location

Legend

- Monitoring well
- Newman Zone Injection Point
  - *Summer 2011*
- HRC injection point
  - *Dec. 2005, Aug. 2006*
- Groundwater Contour
  - *July 2010*
- Airfield
- Road
- Storm drain
- Existing Facilities
- Demolished Facilities

25 12.5 0 25
Feet

United States Air Force
Former Griffiss Air Force Base
Rome, New York

Figure 2-1
Building 35 AOC
Site Location Map

FPM Remediations, Inc.

Y:\GIS_Projects\Griffiss\Projects\40-05-27\On-base Groundwater\B35_Site_Plan.mxd

Type or print all information. See reverse for instructions.

OMB No. 2040-0042 Approval Expires 12/31/2011

INVENTORY OF INJECTION WELLS

EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF GROUND WATER AND DRINKING WATER

(This information is collected under the authority of the Safe Drinking Water Act)

1. DATE PREPARED *(Year, Month, Day)*: 2011, June 9

2. FACILITY ID NUMBER:

PAPERWORK REDUCTION ACT NOTICE

The public reporting burden for this collection of information is estimated at about 0.5 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, Director, Collection Strategies Division (2822), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, and to the Office of Management and Budget, Paperwork Reduction Project, Washington, DC20503.

3. TRANSACTION TYPE *(Please mark one of the following)*

- ☐ Deletion
- ☒ First Time Entry
- ☐ Entry Change
- ☐ Replacement

4. FACILITY NAME AND LOCATION

A. NAME *(last, first, and middle initial)*: Former Griffiss AFB

B. STREET ADDRESS/ROUTE NUMBER: Ellsworth Rd

C. LATITUDE

DEG	MIN	SEC
79	24	8.55

D. LONGITUDE

DEG	MIN	SEC
43	13	9.82

E. TOWNSHIP/RANGE

TOWNSHIP	RANGE	SECT	1/4 SECT

F. CITY/TOWN: Rome

G. STATE: NY

H. ZIP CODE: 13441

I. NUMERIC COUNTY CODE:

J. INDIAN LAND *(mark "x")*: ☐ Yes ☐ No

5. LEGAL CONTACT

A. TYPE *(mark "x")*: ☐ Owner ☒ Operator

B. NAME *(last, first, and middle initial)*: Jerrard, Cathy

C. PHONE *(area code and number)*: 315-356-0810

D. ORGANIZATION: AFCEE/EXC Griffiss

E. STREET/P.O. BOX: 428 Phoenix Dr

F. CITY/TOWN: Rome

G. STATE: NY

H. ZIP CODE: 13441

I. OWNERSHIP *(mark "x")*

- ☐ PRIVATE
- ☐ PUBLIC
- ☐ SPECIFY OTHER
- ☐ STATE
- ☐ FEDERAL

6. WELL INFORMATION:

A. CLASS AND TYPE	B. NUMBER OF WELLS: COMM	B. NUMBER OF WELLS: NON-COMM	C. TOTAL NUMBER OF WELLS	D. WELL OPERATION STATUS: UC	AC	TA	PA	AN
5 26		4	04	X				
			0					
			0					
			0					
			0					
			0					
			0					

COMMENTS *(Optional)*:

KEY:

DEG = Degree
MIN = Minute
SEC = Second

SECT = Section
1/4 SECT = Quarter Section

COMM = Commercial
NON-COMM = Non-Commercial

AC = Active
UC = Under Construction
TA = Temporarily Abandoned
PA = Permanently Abandoned and Approved by State
AN = Permanently Abandoned and not Approved by State

EPA Form 7520-16 (Rev. 12-08)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

JUN 21 2011

Michael McDermott
Air Force Real Property Agency
153 Brooks Road
Rome, NY 13441

Re: Underground Injection Control (UIC) Program Regulation
Griffiss Air Force Base **(Reference UICID: 08NY06508014)**
Griffiss Air Force Base
Rome, NY 13440
Oneida County
Authorization to Inject

Dear Mr. McDermott:

This letter serves to inform you that the U.S. Environmental Protection Agency is in receipt of inventory information addressing wells authorized by rule located at the above-referenced facility in accordance with 40 Code of Federal Regulations (CFR) §144.26. The operation of the following Underground Injection Control wells are authorized by rule, pursuant to 40 CFR §144.24:

Four (4) on-site wells are authorized to inject 2% Newman Zone (an emulsified vegetable oil for enhanced anaerobic bioremediation) for remediation of chlorinated solvents.

Should any conditions change in the operation of any of the wells listed above (such as injectate composition, closure of the well, injection of cooling water greater than 150 degrees Fahrenheit, construction of additional wells, etc.) you are required to notify this office within five (5) days. Any accidental spills into a well should be reported within twenty-four (24) hours after the event. Change in operation information should be addressed to:

Nicole Foley Kraft, Chief
Ground Water Compliance Section
United States Environmental Protection Agency
290 Broadway, 20th Floor
New York, NY 10007-1866
Re: 08NY06508014
Attn: Robert Ferri

Should you own or operate **other** facilities using underground injection wells, please use the enclosed inventory form (EPA Form 7520-16) and instructions, copy for multiple facilities, and submit them to the address listed above. These documents can also be found on the internet at:
http://www.epa.gov/safewater/uic/pdfs/7520-16.pdf
http://www.epa.gov/region02/water/compliance/supplemental_instructions_inventory.pdf
http://www.epa.gov/region02/water/compliance/wellclasstypetable_inventoryc_form

Failure to respond to this letter truthfully and accurately within the time provided may subject you to sanctions authorized by federal law. Please also note that all information submitted by you may be used in an administrative, civil judicial, or criminal action. In addition, making a knowing submission of materially false information to the U.S. Government may be a criminal offense.

Should you have any questions, please contact Frank Brock of my staff at (212) 637-4227 or ferri.robert@epa.gov.

Sincerely,

Nicole Foley Kraft, Chief
Ground Water Compliance Section

Enclosure

cc: Steven Botsford, P.E.
NYSDEC, Region 6
317 Washington St.
Watertown, NY 13601-3787

Nick Caruso
Oneida County Health Dept.
800 Park Avenue
Utica, NY 13501

John Lanier
Parsons
290 Elwood Davis Road, Suite 312
Liverpool, NY 13088

USEPA REGION II SUPPLEMENTAL INSTRUCTIONS FOR COMPLETING INVENTORY OF INJECTION WELLS

EPA FORM 7520-16 (Rev. 8-01)

SECTION 2. FACILITY ID NUMBER: Leave blank. EPA will assign an ID number.

SECTION 3. TRANSACTION TYPE: Check either First Time Entry or Entry Change. If this is the first time you have submitted this form for your injection wells(s), check First Time Entry and fill in all the appropriate information. If you are modifying information you sent in before, check Entry Change, fill in the Facility Name and Location and fill in the information that has changed. (Note: If the facility name has changed, in the blank space in the upper left hand corner write the prior facility name under which the form was first submitted, and the date it was submitted.)

SECTION 4. FACILITY NAME AND LOCATION: If you know the latitude and longitude of your facility, fill in line 4C and 4D. You do not need to fill in 4E, Township/Range. If you know the Numeric County Code, fill in line 4I, otherwise just write in the name of the County.

SECTION 5. LEGAL CONTACT: Under 5A, if the Legal Contact you are identifying owns the land, check Owner. If the Legal Contact owns and/or operates the business but someone else owns the land, check Operator. Under 5I, "Private" means privately owned. "Public" means owned by local/municipal government. "State" and Federal" mean owned by state/federal government.

SECTION 6. WELL INFORMATION: Under 6A CLASS AND TYPE, use the attached table "USEPA Region II List of Class V Injection Well Types" to determine the **CLASS V** "TYPE". Enter the appropriate Type Code in 6A (the Type Code does not have to fit within the two boxes on the Inventory Form). Select the Class V well type(s) that most accurately fit the well(s) at your facility. When reviewing the attached table and making your determination, be sure to consider all of the fluids entering the well or having the potential to enter the well. For example, Storm Water Drainage Wells located in industrial areas which are susceptible to spills, leaks or other chemical discharges are inventoried as Industrial Drainage Wells. If Cesspools and Septic Systems are receiving fluids other than sanitary waste (human excreta), that should be noted in the Additional Information below.

IMPORTANT: ADDITIONAL INFORMATION

In order to ensure that the **Class V** Well(s) at your facility are accurately inventoried you must also submit on a separate piece of paper: (1) a brief description characterizing your facility and the types of activities conducted; (2) a brief description of what you use each of your injection well(s) for; (3) a brief description of the types of fluids that enter, or have the potential to enter, each of your injection well(s). (Note: wells with the same information may be grouped).

If you require assistance, please contact EPA Region II at (212) 637-3093.

USEPA REGION II LIST OF
CLASS V INJECTION WELL TYPES

TYPE CODE	NAME	DESCRIPTION
	INDUSTRIAL/COMMERCIAL/UTILITY DISPOSAL WELLS	
5X28	MOTOR VEHICLE WASTE DISPOSAL WELLS	- wells that receive or have received fluids from vehicular repair or maintenance activities, such as an auto body repair shop, automotive repair shop, new and used car dealership, specialty repair shop (e.g., transmission and muffler repair shop), or any facility that does any vehicular repair work.
5W20	INDUSTRIAL PROCESS WATER & WASTE DISPOSAL WELLS	- used to dispose of a wide variety of wastes and wastewater from industrial, commercial, or utility processes. Industries include refineries, chemical plants, smelters, pharmaceutical plants, laundromats and dry cleaners, tanneries, carwashes, laboratories, funeral homes, etc. Specify industry and waste stream.
5A19	COOLING WATER RETURN FLOW WELLS	- used to inject water which was used in a cooling process.
	DRAINAGE WELLS	
5D4	INDUSTRIAL DRAINAGE WELL	- wells located in industrial areas which primarily receive storm water runoff but are susceptible to spills, leaks, or other chemical discharges.
5D2	STORM WATER DRAINAGE WELLS	- receive storm water runoff from paved areas, including parking lots, streets, residential subdivisions, building roofs, highways, etc.
5F1	AGRICULTURAL DRAINAGE WELLS	- receive irrigation tailwaters, other field drainage, animal yard, feedlot, or dairy runoff, etc.
5D3	IMPROVED SINKHOLES	- receive storm water runoff from developments located in karst topographic areas.
5G30	SPECIAL DRAINAGE WELLS	- used for disposing water from sources other than direct precipitation–such as landslide control drainage wells, potable water tank overflow drainage wells, swimming pool drainage wells, and lake level control drainage wells.

DOMESTIC WASTEWATER DISPOSAL WELLS		
5W9	UNTREATED SEWAGE WASTE DISPOSAL	- receive raw sewage wastes from pumping trucks or other vehicles which collect such wastes from single or multiple sources. (No treatment)
5W10	LARGE CAPACITY CESSPOOLS	- large capacity cesspools including multiple dwelling, community or regional cesspools, or other devices that receive sanitary wastes, containing human excreta, which have an open bottom and sometimes perforated sides. Includes non-residential cesspools which receive solely sanitary waste and have the capacity to serve greater than or equal to 20 persons a day. DOES NOT apply to single family residential cesspools.
5W11	SEPTIC SYSTEM (UNDIFFERENTIAT-ED DISPOSAL METHOD)	- used to inject the waste or effluent from a multiple dwelling, business establishment, community or regional business establishment septic tank to an undetermined final discharge point. Includes non-residential septic systems which receive solely sanitary waste and have the capacity to serve greater than or equal to 20 persons a day. DOES NOT apply to single family residential septic systems. (Primary Treatment)
5W31	SEPTIC SYSTEMS (WELL DISPOSAL METHOD)	- used to inject the waste or effluent from a multiple dwelling, business establishment, community or regional business establishment septic tank to a well-- examples of wells include dry wells, seepage pits, cavitettes, etc. The largest surface dimension is less than or equal to the depth dimension. Includes non-residential septic systems which receive solely sanitary waste and have the capacity to serve greater than or equal to 20 persons a day. DOES NOT apply to single family residential septic systems. (Primary Treatment)
5W32	SEPTIC SYSTEMS (DRAIN FIELD DISPOSAL METHOD)	- used to inject the waste or effluent from a multiple dwelling, business establishment , community or regional business establishment septic tank to a drainfield--examples of drainfields include drain or tile lines, and trenches. Includes non-residential septic systems which receive solely sanitary waste and have the capacity to serve greater than or equal to 20 persons a day. DOES NOT apply to single family residential septic systems. (Primary Treatment)
5W12	DOMESTIC WASTEWATER TREATMENT PLANT EFFLUENT DISPOSAL	- dispose of treated sewage or domestic effluent from small package plants up to large municipal treatment plants. Final discharge points may include drywells or leachfields. (Secondary or further treatment)

GEOTHERMAL REINJECTION WELLS		
5A5	ELECTRIC POWER REINJECTION WELLS	- reinject geothermal fluids used to generate electric power.
5A6	DIRECT HEAT REINJECTION WELLS	- reinject geothermal fluids used to provide heat for large buildings or developments.
5A7	HEAT/PUMP/AIR CONDITIONING RETURN FLOW WELLS	- reinject groundwater used to heat or cool a building in a heat pump system.
5A8	GROUNDWATER AQUACULTURE RETURN FLOW WELLS	- reinject groundwater or geothermal fluids used to support aquaculture. Non-geothermal aquaculture disposal wells are also included in this category (e.g., Marine aquariums in Hawaii use relatively cool sea water).
RECHARGE WELLS		
5R21	AQUIFER RECHARGE WELLS	- used to recharge depleted aquifers and may inject fluids from a variety of sources such as lakes, streams, domestic wastewater treatment plants, other aquifers, etc.
5B22	SALINE WATER INTRUSION BARRIER WELLS	- used to inject water into fresh water aquifers to prevent intrusion of salt water into fresh water aquifers.
5S23	SUBSIDENCE CONTROL WELLS	- used to inject fluids into a non-oil or gas producing zone to reduce or eliminate subsidence associated with overdraft of fresh water and not used for the purpose of oil or natural gas production.
OIL FIELD PRODUCTION WASTE DISPOSAL WELLS		
5X17	AIR SCRUBBER WASTE DISPOSAL WELLS	- inject waste from air scrubbers used to remove sulfur from crude oil which is burned in steam generation for thermal oil recovery projects. (If injection is used directly for enhanced recovery and not just disposal it is a Class II well.)
5X18	WATER SOFTENER REGENERATION BRINE DISPOSAL WELLS	- inject regeneration waste from water softeners which are used to improve the quality of brines used for enhanced recovery. (If injection is used directly for enhanced recovery and not just disposal it is a Class II well.)

MINERAL AND FOSSIL FUEL RECOVERY RELATED WELLS		
5X13	MINING, SAND, OR OTHER BACKFILL WELLS	- used to inject a mixture of water and sand, mill tailings, and other solids into mined out portions of subsurface mines. whether what is injected is radioactive waste or not. Also includes special wells used to control mine fires and acid mine drainage wells.
5X14	SOLUTION MINING WELLS	- used for in situ solution mining in conventional mines, such as slopes leaching.
5X15	IN-SITU FOSSIL FUEL RECOVERY WELLS	- used for in situ recovery of coal, lignite, oil shale, and tar sands.
5X16	SPENT BRINE RETURN FLOW WELLS	- used to reinject spent brine into the same formation from which it was withdrawn after extraction of halogens or their salts.
MISCELLANEOUS WELLS		
5X25	EXPERIMENTAL TECHNOLOGY WELL	- wells used in experimental or unproven technologies such as pilot scale in situ solution mining wells in previously unmined areas.
5X26	AQUIFER REMEDIATION RELATED WELLS	- wells used to prevent, control, or remediate aquifer pollution, including but not limited to Superfund sites.
5X29	ABANDONED DRINKING WATER WELLS	- used for disposal of fluids. Specify well purpose and injected fluids.
5X27	OTHER WELLS	- any other unspecified Class V wells. Specify well type/purpose and injected fluids.

SOURCE: Prepared by EPA Region II. Based on 1987 *Report to Congress* on Class V Wells; and 40 C.F.R. §144.81.

May 11, 2004 (3:47pm)G:/User/Share/DECADIV\DECA-WCB\GWCS\Well Class Type Table for Inventory Form5.wpd

Type or print all information. **See reverse for instructions.**

OMB No. 2040-0042 Approval Expires 12/31/2011

INVENTORY OF INJECTION WELLS

EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF GROUND WATER AND DRINKING WATER

(This information is collected under the authority of the Safe Drinking Water Act)

1. DATE PREPARED *(Year, Month, Day)*	2. FACILITY ID NUMBER

PAPERWORK REDUCTION ACT NOTICE

The public reporting burden for this collection of information is estimated at about 0.5 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, Director, Collection Strategies Division (2822), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, and to the Office of Management and Budget, Paperwork Reduction Project, Washington, DC20503.

3. TRANSACTION TYPE *(Please mark one of the following)*

☐ Deletion ☐ First Time Entry
☐ Entry Change ☐ Replacement

4. FACILITY NAME AND LOCATION

A. NAME *(last, first, and middle initial)*	C. LATITUDE	DEG	MIN	SEC
B. STREET ADDRESS/ROUTE NUMBER	D. LONGITUDE	DEG	MIN	SEC

E. TOWNSHIP/RANGE

TOWNSHIP	RANGE	SECT	1/4 SECT

F. CITY/TOWN	G. STATE	H. ZIP CODE	I. NUMERIC COUNTY CODE	J. INDIAN LAND *(mark "x")*
				☐ Yes ☐ No

5. LEGAL CONTACT:

A. TYPE *(mark "x")*	B. NAME *(last, first, and middle initial)*	C. PHONE *(area code and number)*
☐ Owner ☐ Operator		

D. ORGANIZATION	E. STREET/P.O. BOX	I. OWNERSHIP *(mark "x")*
		☐ PRIVATE ☐ PUBLIC ☐ SPECIFY OTHER

F. CITY/TOWN	G. STATE	H. ZIP CODE	
			☐ STATE ☐ FEDERAL _____

6. WELL INFORMATION:

A. CLASS AND TYPE		B. NUMBER OF WELLS		C. TOTAL NUMBER OF WELLS	D. WELL OPERATION STATUS				
		COMM	NON-COMM		UC	AC	TA	PA	AN
				0					
				0					
				0					
				0					
				0					
				0					
				0					

COMMENTS *(Optional)*:

KEY:

DEG = Degree
MIN = Minute
SEC = Second

SECT = Section
1/4 SECT = Quarter Section

COMM = Commercial
NON-COMM = Non-Commercial

AC = Active
UC = Under Construction
TA = Temporarily Abandoned
PA = Permanently Abandoned and Approved by State
AN = Permanently Abandoned and not Approved by State

SECTION 1. DATE PREPARED: Enter date in order of year, month, and day.

SECTION 2. FACILITY ID NUMBER: In the first two spaces, insert the appropriate U.S. Postal Service State Code. In the third space, insert one of the following one letter alphabetic identifiers:

D - DUNS Number,
G - GSA Number, or
S - State Facility Number.

In the remaining spaces, insert the appropriate nine digit DUNS, GSA, or State Facility Number. For example, A Federal facility (GSA - 123456789) located in Virginia would be entered as : VAG123456789.

SECTION 3. TRANSACTION TYPE: Place an "x" in the applicable box. See below for further instructions.

Deletion. Fill in the Facility ID Number.
First Time Entry. Fill in all the appropriate information.
Entry Change. Fill in the Facility ID Number and the information that has changed.
Replacement.

SECTION 4. FACILITY NAME AND LOCATION:

A. **Name.** Fill in the facility's official or legal name.
B. **Street Address.** Self Explanatory.
C. **Latitude.** Enter the facility's latitude (all latitudes assume North Except for American Samoa).
D. **Longitude.** Enter the facility's longitude (all longitudes assume West except Guam).
E. **Township/Range.** Fill in the complete township and range. The first 3 spaces are numerical and the fourth is a letter (N,S,E,W) specifying a compass direction. A township is North or South of the baseline, and a range is East or West of the principal meridian (e.g., 132N, 343W).
F. **City/Town.** Self Explanatory.
G. **State.** Insert the U.S. Postal Service State abbreviation.
H. **Zip Code.** Insert the five digit zip code plus any extension.

SECTION 4. FACILITY NAME & LOCATION (CONT'D.):

I. **Numeric County Code.** Insert the numeric county code from the Federal Information Processing Standards Publication (FIPS Pub 6-1) June 15, 1970, U.S. Department of Commerce, National Bureau of Standards. For Alaska, use the Census Division Code developed by the U.S. Census Bureau.
J. **Indian Land.** Mark an "x" in the appropriate box (Yes or No) to indicate if the facility is located on Indian land.

SECTION 5. LEGAL CONTACT:

A. **Type.** Mark an "x" in the appropriate box to indicate the type of legal contact (Owner or Operator). For wells operated by lease, the operator is the legal contact.
B. **Name.** Self Explanatory.
C. **Phone.** Self Explanatory.
D. **Organization.** If the legal contact is an individual, give the name of the business organization to expedite mail distribution.
E. **Street/P.O. Box.** Self Explanatory.
F. **City/Town.** Self Explanatory.
G. **State.** Insert the U.S. Postal Service State abbreviation.
H. **Zip Code.** Insert the five digit zip code plus any extension.
I. **Ownership.** Place an "x" in the appropriate box to indicate ownership status.

SECTION 6. WELL INFORMATION:

A. **Class and Type.** Fill in the Class and Type of injection wells located at the listed facility. Use the most pertinent code (specified below) to accurately describe each type of injection well. For example, 2R for a Class II Enhanced Recovery Well, or 3M for a Class III Solution Mining Well, etc.
B. **Number of Commercial and Non-Commercial Wells.** Enter the total number of commercial and non-commercial wells for each Class/Type, as applicable.
C. **Total Number of Wells.** Enter the total number of injection wells for each specified Class/Type.
D. **Well Operation Status.** Enter the number of wells for each Class/Type under each operation status (see key on other side).

CLASS I Industrial, Municipal, and Radioactive Waste Disposal Wells used to inject waste below the lowermost Underground Source of Drinking Water (USDW).

TYPE	**1I**	Non-Hazardous Industrial Disposal Well.
	1M	Non-Hazardous Municipal Disposal Well.
	1H	Hazardous Waste Disposal Well injecting below the lowermost USDW.
	1R	Radioactive Waste Disposal Well.
	1X	Other Class I Wells.

CLASS II Oil and Gas Production and Storage Related Injection Wells.

TYPE	**2A**	Annular Disposal Well.
	2D	Produced Fluid Disposal Well.
	2H	Hydrocarbon Storage Well.
	2R	Enhanced Recovery Well.
	2X	Other Class II Wells.

CLASS III Special Process Injection Wells.

TYPE	**3G**	*In Situ* Gasification Well
	3M	Solution Mining Well.

CLASS III (CONT'D.)

TYPE	**3S**	Sulfur Mining Well by Frasch Process.
	3T	Geothermal Well.
	3U	Uranium Mining Well.
	3X	Other Class III Wells.

CLASS IV Wells that inject hazardous waste into above USDWs.

TYPE	**4H**	Hazardous Facility Injection Well.
	4R	Remediation Well at RCRA or CERCLA site.

CLASS V Any Underground Injection Well not included in Classes I through IV.

TYPE	**5A**	Industrial Well.
	5B	Beneficial Use Well.
	5C	Fluid Return Well.
	5D	Sewage Treatment Effluent Well.
	5E	Cesspools (non-domestic).
	5F	Septic Systems.
	5G	Experimental Technology Well.
	5H	Drainage Well.
	5I	Mine Backfill Well.
	5J	Waste Discharge Well.

Appendix B
Daily Chemical Quality Control Reports

Daily Chemical Quality Control Report

Project/Delivery Order Number: FA8903-10-D-8595-0014 Date: 06/21/11

Project Name/Site Number: Griffiss Landfill Areas of Concern LTM sampling (LF003 – Landfill 7) and Griffiss On-Base Groundwater Areas of Concern LTM Sampling (SS060 – Building 35)

Weather conditions: Average temperature: 84 Average barometric reading: 29.91
Wind direction and speed: ESE, 3 mph
Significant wind changes: none.

General description of tasks completed: Low flow sampling at LF003 – Landfill 7 (LF7MW-22 and -23) and SS060 – Building 35 (B035MW-4). Bailer sampling at LF003 – Landfill 7 (LF7MW-100)

Explain any departures from the SAP or deviations from approved procedures during the day's field activities: None.

Explain any technical problems encountered in the field or field equipment/field analytical instrument malfunction: None.

Corrective actions taken or instructions obtained from AFCEE personnel: No corrective actions necessary.

Sampling shipment completed: √ Yes □ No Test America Courier.

DCQCR Prepared by: Daniel Baldyga, FPM, Technical Lead Date: June 21, 2011

CQCC Signature:_____ Date:_____

ATTACHMENTS:

Checklist	Daily Chemical Quality Control Report Attachments
	✓ Field sampling forms
	✓ Equipment Calibration Log
	✓ Copies of COCs
	✓ SDG Table (See accompanying COCs)
	✓ Daily Health and Safety Meeting Form

WELL PURGING & SAMPLING FORM
(LOW FLOW)

Project: 1015-11-01 Sampled by: JW/SN

Location and Site Code (**SITEID**): LF7

Well No. (**LOCID**): LF7MW-22 Well Diameter (**SDIAM**): 2"

Date (**LOGDATE**): 6/21/11 Weather: Sun/80°

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

Measured Well Depth (B) (**TOTDEPTH**) _____ ft. (optional)

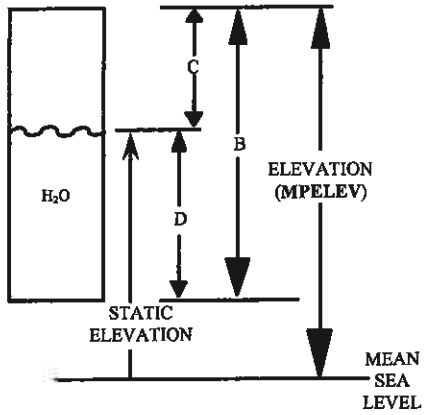
Measured Water Level Depth (C) (**STATDEP**) 1.60 ft.

Length of Static Water Column (D) = _____ (B) - _____ (C) = _____ (D) ft. (optional)

Pump Intake Depth (ft): 8

Depth during Purging/Sampling: _____ ft (provide range)

Comments (re: Depth during purging/sampling): 1.86-1.96



Purge Date and Method: BLADDER PUMP 6/21/11

Physical Appearance/Comments: cloudy brown no odor

Dissolved Ferrous Iron (mg/L): Remove 576 mL H2O prior to readings

FIELD MEASUREMENTS:

Allowable Range:		± 0.1	± 3%		± 10%	± 10%	± 10mV	
Time	Depth to Water (ft BTOC)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)	Flow Rate (mL/min)
1357	1.86	7.05	.508	19.64	329	8.40	-56	200
1359	1.86	6.95	.426	19.98	323	8.84	-55	200
1401	1.86	6.94	.608	19.35	236	8.87	-56	200
1403	1.86	6.95	.610	18.10	160	8.91	-58	200
1405	1.86	6.93	.612	18.07	169	8.95	-60	200
1407	1.86	6.92	.610	18.17	165	8.92	-61	200

Sample Time: 1409 Sample ID: LF7M22086A

Note: Maintain a flow rate of 200-500 mL/min during purging. Collect samples at a flow rate between 100-250 mL/min. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM
(LOW FLOW)

Project: 1015-11-01 Sampled by: JW/SN

Location and Site Code (**SITEID**): LF7

Well No. (**LOCID**): LF7MW-23 Well Diameter (**SDIAM**): 2"

Date (**LOGDATE**): 6/21/11 Weather: Sun / 80°

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

Measured Well Depth (B) (**TOTDEPTH**) _____ ft. (optional)

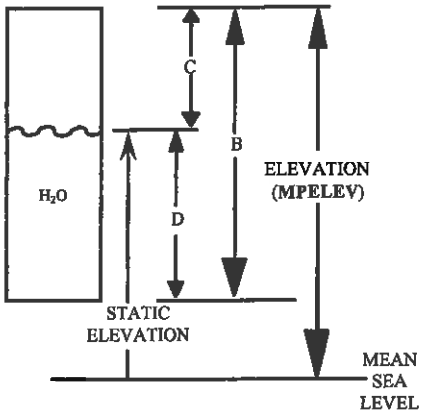
Measured Water Level Depth (C) (**STATDEP**) 1.10 ft.

Length of Static Water Column (D) = _____ (B) - _____ (C) = _____ (D) ft. (optional)

Pump Intake Depth (ft): 12

Depth during Purging/Sampling: _____ ft (provide range)

Comments (re: Depth during purging/sampling): 1.28-1.39 ft



Purge Date and Method: BLADDER PUMP 6/21/11

Physical Appearance/Comments: cloudy, brown no odor

Dissolved Ferrous Iron (mg/L): Remove 6664 mL H2O prior to readings

FIELD MEASUREMENTS:

Allowable Range:		± 0.1	± 3%		± 10%	± 10%	± 10mV	
Time	Depth to Water (ft BTOC)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)	Flow Rate (mL/min)
1437	1.28	6.92	.296	18.57	110	9.44	-121	200
1439	1.28	7.05	.298	18.70	82.3	9.16	-124	200
1441	1.28	7.08	.395	17.27	64.5	8.43	-125	200
1443	1.28	7.10	.400	17.31	45.7	8.44	-121	200
1445	1.28	7.10	.398	17.02	35.6	8.31	-127	200
1447	1.28	7.10	.399	17.00	36.5	8.29	-124	200

Sample Time: 1449 Sample ID: LF7M12312UA

Note: Maintain a flow rate of 200-500 mL/min during purging. Collect samples at a flow rate between 100-250 mL/min. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM
(LOW FLOW)

Project: 1015-11-01 Sampled by: JW/SN

Location and Site Code (**SITEID**): LF 7

Well No. (**LOCID**): WL-LF7MW-28 Well Diameter (**SDIAM**): _____

Date (**LOGDATE**): 6/21/11 Weather: Sun 80°

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

Measured Well Depth (B) (**TOTDEPTH**) _____ ft. (optional)

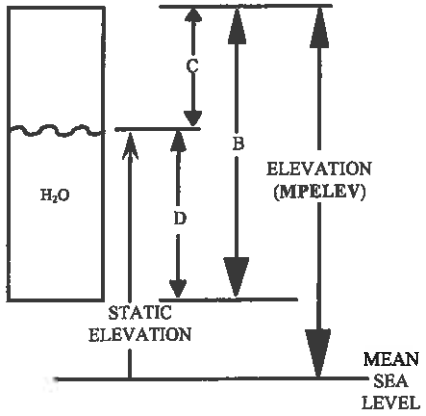
Measured Water Level Depth (C) (**STATDEP**) _____ ft.

Length of Static Water Column (D) = _____ (B) - _____ (C) = _____ (D) ft. (optional)

Pump Intake Depth (ft): _____

Depth during Purging/Sampling: _____ ft (provide range)

Comments (re: Depth during purging/sampling): _____



Purge Date and Method: BLADDER PUMP _____

Physical Appearance/Comments: _____

Dissolved Ferrous Iron (mg/L): _____

FIELD MEASUREMENTS:

Allowable Range:		± 0.1	± 3%		± 10%	± 10%	± 10mV	
Time	Depth to Water (ft BTOC)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)	Flow Rate (mL/min)
X	Unable to locate well in LF7 designated sampling area. WL-LF7MW-28 is located too close to active runway, so could not be sampled.							X

Sample Time: _____ Sample ID: _____

Note: Maintain a flow rate of 200-500 mL/min during purging. Collect samples at a flow rate between 100-250 mL/min. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 10 15-11-01 Sampled by: MG/KM

Location and Site Code (SITEID): LF7

Well No. (LOCID): LF7MW-100 Well Diameter (SDIAM): 4"

Date (LOGDATE): 6-20-11 Weather: Sunny / 75°F

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

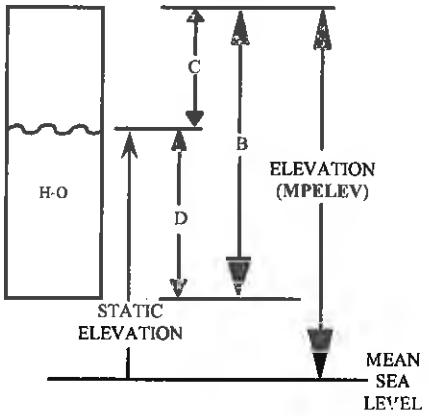
Measured Well Depth (B) (TOTDEPTH) 45.45 ft.

Measured Water Level Depth (C) (STATDEP) 44.28 ft.

Length of Static Water Column (D) = ____ (B) - ____ (C) = 1.17 (D) ft.

Casing Water Volume (E) = ____ (A) x ____ (D) = 0.76 gal

Minimum Purge Volume = 2.28 gal (3 well volumes)



Purge Date and Method: Bailer / 6-20-11

Physical Appearance/Comments: Cloudy / no odor

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1454	0.5	7.70	4.56	14.09	65.9	7.56	83
1456	0.76	7.61	4.60	12.95	104	6.22	92
		Bailed dry @ .76gal					

Sample Time: 1400 Sample ID: LF7100440A

6-21-11

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM
(LOW FLOW)

Project: 1015-11-01 Sampled by: KM/MG

Location and Site Code (SITEID): B035

Well No. (LOCID): B035mw-4 Well Diameter (SDIAM): 2"

Date (LOGDATE): 6-21-11 Weather: sunny / 70°F

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

Measured Well Depth (B) (TOTDEPTH) 13.71 ft. (optional)

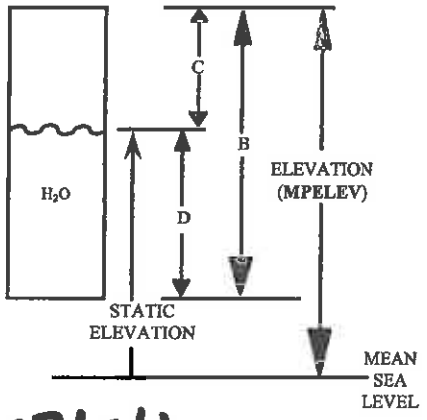
Measured Water Level Depth (C) (STATDEP) 6.25 ft.

Length of Static Water Column (D) = ____ (B) - ____ (C) = ____ (D) ft. (optional)

Pump Intake Depth (ft): 11

Depth during Purging/Sampling: 6.28-6.38 ft (provide range)

Comments (re: Depth during purging/sampling): _____



Purge Date and Method: BLADDER PUMP 6-21-11

Physical Appearance/Comments: slight sulfur odor / slight cloudy

Dissolved Ferrous Iron (mg/L): _____

Min purge vol = 11ft x 22mL/ft + 400mL = 642 mL

FIELD MEASUREMENTS:

Allowable Range:		± 0.1	± 3%		± 10%	± 10%	± 10mV	
Time	Depth to Water (ft BTOC)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)	Flow Rate (mL/min)
1304	6.28	6.87	1.74	13.23	1.3	0.00	-115	400
1306	6.28	6.99	1.18	12.79	0.0	0.00	-134	400
1308	6.28	6.95	1.15	12.84	0.0	0.00	-135	400
1310	6.28	6.95	1.11	12.94	0.0	0.00	-134	400
1312	6.28	7.05	1.08	13.15	0.0	0.00	-132	400
1314	6.28	6.97	1.08	12.96	0.0	0.00	-137	400

Sample Time: 1320 Sample ID: B035M0416JA

Note: Maintain a flow rate of 200-500 mL/min during purging. Collect samples at a flow rate between 100-250 mL/min. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

Equipment Calibration Log

Instrument Name: Horiba U-52

Model Number: #1 - Dec 09

Date	First Standard Concentration	First Standard Reading	Second Standard Concentration	Second Standard Reading	Comments
6-6-11	4.00	4.00			
6-7-11	4.00	4.00			
6-8-11	4.00	~~3.99~~ 4.00			
6-9-11	4.00	4.00			
6-10-11	4.00	4.00			
6-13-11	4.00	4.00			
6-15-11	4.00	4.00			
6-16-11	4.00	4.00			
6-20-11	4.00	4.01			
6-21-11	4.00	4.00			

Equipment Calibration Log

Instrument Name: Horiba U-52

Model Number: #2 Dec 10

Date	First Standard Concentration	First Standard Reading	Second Standard Concentration	Second Standard Reading	Comments
6-6-11	~~3.97~~ 4.00	3.97			
6-7-11	4.00	4.00			
6-8-11	4.06	4.00			
6-9-11	4.00	4.01			
6-10-11	4.00	4.00			
6-13-11	4.00	4.00			
6-15-11	4.00	4.00			
6-16-11	4.00	4.00			
6-20-11	4.00	4.00			
6-21-11	4.00	4.00			

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _ _ Cooler ID#: _A_

Ship to: Elaine Walker Test America Laboratories, Inc. 4955 Yarrow Street Arvada, Colorado Tel: 303-736-0156	Project Name: Griffiss AFB LF7 LTM Sampler Name: Josh Wenzel	Send Results to: Daniel Baldyga FPM Remediations, Inc. 584 Phoenix Drive Rome, NY 13441 Phone: (315) 336-7721 Ext. 207
Carrier: Test America Inc. courier.	Sampler Signature:	

Analyses requested

Field Sample ID	LocID	Date 2011	Time	MATRIX	SMCODE	SACODE	SBD/SED	# of Containers	Hardness note 2 250 mL poly (HNO_3)	Anions, TDS, color, Alkalinity note 4 500 mL poly	NH3, COD, TKN note 5 500 mL poly (H_2SO_4)	TOC note 6 250 mL amber (H_2SO_4)	BOD Note 7 1 L Poly	Comments
LF7M2208UA	LF7MW-22	6/21	1409	WG	BP	N	0/0	5	1	1	1	1	1	
LF7M2312UA	LF7MW-23	6/21	1447	WG	BP	N	0/0	5	1	1	1	1	1	
LF7M2810UA	WL-LF7MW-28	-	-	WG	BP	N	0/0	5	1	1	1	1	1	Unable to sample well due to close proximity to active runway
LF7M10044UA	WL-LF7-100	6/21	1400	WG	B	N	0/0	4	1	1	1	1	-	Not enough water for 1L BOD sample
LF7WL0301UA	WT-LF7WL-03	-	-	WG	G	N	0/0	5	1	1	1	1	1	No surface water at this location
LF7WL0401UA	WT-LF7WL-04	-	-	WG	G	N	0/0	5	1	1	1	1	1	No surface water at this location

Sample Condition Upon Receipt at Laboratory: Cooler temperature:

Special Instructions/Comments: Parameter List: (According to AFCEE QAPP 4.0 and NYSDEC Landfill Part 360 Baseline Parameters)

Note 1: VOCs: SW8260 AFCEE QAPP 4.0 List + NYS Part 360 Baseline Parameters.
Note 2: Hardness: 130.2.
Note 3: Phenols: SW9065.
Note 4: Anions: SW9056, TDS: SM2540C, Color: 110.2, Alkalinity: SM2320B.
Note 5: NH3: 350.2, COD: 410.4, TKN: 351.2.
Note 6: TOC: SW9060.

Note 7: BOD: 405.1.
Note 8: Alkalinity: 310.1
Note 9: Cyanide: SW9012.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date: 6/21/11	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations, Inc.	Time: 1715	Company Name:	Time:
#1 Received by: (Sig) Niels van Hoesel	Date: :	#2 Received by: (Sig) REYLYN	Date: 06-21-11	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations, Inc.	Time:	Company Name: TA SYR	Time: 17:15	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _ _ Cooler ID#: _A_

Ship to: Elaine Walker Test America Laboratories, Inc. 4955 Yarrow Street Arvada, Colorado Tel: 303-736-0156	Project Name: Griffiss AFB LF7 LTM Sampler Name: Josh Wenzel	Send Results to: Daniel Baldyga FPM Remediations, Inc. 584 Phoenix Drive Rome, NY 13441 Phone: (315) 336-7721 Ext. 207
Carrier: Test America Inc. courier.	Sampler Signature:	

Analyses requested

Field Sample ID	LocID	Date 2011	Time	MATRIX	SMCODE	SACODE	SBD/SED	# of Containers	Hardness note 2 250 mL poly (HNO_3)	Anions, TDS, color, Alkalinity note 4 500 mL poly	NH3, COD, TKN note 5 500 mL poly (H_2SO_4)	TOC note 6 250 mL amber (H_2SO_4)	BOD Note 7 1 L Poly	Comments
LF7M2208UA	LF7MW-22			WG	BP	N	0/0	5	1	1	1	1	1	
LF7M2312UA	LF7MW-23			WG	BP	N	0/0	5	1	1	1	1	1	
LF7M2810UA	WL-LF7MW-28			WG	BP	N	0/0	5	1	1	1	1	1	
LF7M10044UA	WL-LF7-100	6.21	1400	WG	B	N	0/0	84	1	1	1	1	X	
LF7WL0301UA	WT-LF7WL-03			WG	G	N	0/0	5	1	1	1	1	1	
LF7WL0401UA	WT-LF7WL-04			WG	G	N	0/0	5	1	1	1	1	1	
06 11UE	FIELDQC			WQ	BP	EB	0/0	5	1	1	1	1	1	

Sample Condition Upon Receipt at Laboratory: Cooler temperature:

Special Instructions/Comments: Parameter List: (According to AFCEE QAPP 4.0 and NYSDEC Landfill Part 360 Baseline Parameters)

Note 1: VOCs: SW8260 AFCEE QAPP 4.0 List + NYS Part 360 Baseline Parameters.
Note 2: Hardness: 130.2.
Note 3: Phenols: SW9065.
Note 4: Anions: SW9056, TDS: SM2540C, Color: 110.2, Alkalinity: SM2320B.
Note 5: NH3: 350.2, COD: 410.4, TKN: 351.2.
Note 6: TOC: SW9060.
Note 7: BOD: 405.1.
Note 8: Alkalinity: 310.1
Note 9: Cyanide: SW9012.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date:	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations, Inc.	Time:	Company Name:	Time:
#1 Received by: (Sig) Niels van Hoesel	Date: :	#2 Received by: (Sig)	Date:	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations, Inc.	Time:	Company Name:	Time:	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _ _ Cooler ID: _A_

Ship to: Pamela Titus Life Science Laboratories, Inc. 5854 Butternut Drive East Syracuse, NY 13057 Tel: 315-445-1105 ext.274	Project Name: Griffiss AFB B 35 LTM Sampler Name: Daniel Baldyga	Send Results to: Daniel Baldyga FPM Remediations, Inc. 584 Phoenix Drive Rome, NY 13441
Carrier: LSL courier.	Sampler Signature:	Phone: (315) 336-7721 Ext. 207

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt./UnFilt.	No. of Containers	VOCs Note 1 40 mL vial (HCl)	Hardness note 6 250 ml poly (HNO3)	Anions, TDS, color Alkalinity note 2 500 mL poly	NH3, COD, TKN 500ml poly (note 5) H2SO4	BOD (note 7) 1L poly	TOC note3 2 50mL amber (H_2SO_4)	Comments
035M0416JA	B035MW04	6/21	1320	WG	LF	0/0	N	HCl	Unf.	5	3	-	1	-	-	1	
62111JE	FIELDQC	6/21	1700	WQ	LF	0/0	EB	HCl	Unf.	8	3	1	1	1	1	1	
6 2111JF	FIELDQC	6/21	1710	WQ	LF	0/0	AB	HCl	Unf.	3	3	-	-	-	-	-	
6 2111JR	FIELDQC	6/21	1020	WQ	LF	0/0	TB	HCl	Unf.	2	2	-	-	-	-	-	

ALL MONITORING WELLS GROUNDWATER ELEVATIONS SHOULD BE MEASURED.

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:
Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0
Note 1: VOC: method SW 8260: Target COCs: PCE, TCE, DCE, Vinyl Chloride and Chloroform.
Note 2: Anions: SW9056, TDS: SM2540C, Color:110.2, Alkalinity: SM2320B
Note 3: TOC: SW9060.
Note 5: NH3, 350.2, COD: 410.4, TKN: 351.2.
Note 6: Hardness: 130.2.
Note 7: BOD: 405.1

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date: 6/21	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations, Inc.	Time: 1715	Company Name:	Time:
#1 Received by: (Sig)	Date:	#2 Received by: (Sig) REngdahl	Date: 06-21-11	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations, Inc.	Time:	Company Name: TA Syr	Time: 17:05	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
SS = Split spoon

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

Daily Health and Safety Meeting Form

Date: 6/21/11 *Time Start:* 0900

Time End: 0910

Location: FPM Remediations office

Weather Conditions: Sun, 80°F

Meeting Type: Health + Safety

Personnel Present: Josh Wenzel, Katrina Mattice, Mark Grifasi, Spencer Noyes

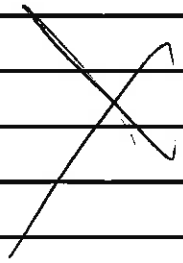
Visitors Present: None

Visitor Training: X

PPE Required: sunscreen, boots, bug spray

Possible risks, injuries, concerns: Biological, heat/sun exposure, slip trip fall

Anticipated Releases to Environment (if so, describe and detail response action/control measures implemented):



Daily Health and Safety Meeting Form (Page 2)

Property Damage: X

Description (include sequence of events describing step by step how incident happened):

X

Analysis for, and Implementation of Corrective/Preventative Procedure to Prevent Future Occurrences (to be formulated by SSHO and FOM, approved by PM, and implemented by SSHO):

X

Report made by (Name): Josh Wenzel

SSHP Organization Title: Safety Officer

Appendix C
Validated Lab Data

FPM REMEDIATIONS, INC.
Data Verification and Usability Report
GRIFFISS AIR FORCE BASE
Site Griffiss AFB Building 35
Water Sampling
Contract No. FA8903-10-D-8595, Delivery Order No. 0014

FPM Project No. 1015-11-01

Test America Job #280-17248-1

Laboratory:	Test America Laboratories, Inc.
Sample Matrix:	Water
Number of Samples:	4
Analytical Protocol:	DOD QSM, version 4.2, as per project-specific UFP QAPP
Data Reviewer:	Connie van Hoesel
Sample Date:	June 21, 2011

LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	QC Samples	Date
B035M0416JA	6/21/11	062111JE, 062111JF, 0621111JR	6/21/11

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.

JA – Primary environmental samples

JE – Equipment Blank

JF – Ambient Blank

JR – Trip Blank

DELIVERABLES

The data deliverable report was per requirements of the DOD QSM, version 4.2, as specified in the project-specific QAPP. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the sample analyses were per methods as specified in the DOD QSM, version 4.2, with project-specific modifications as listed in the project-specific QAPP. The analytical methods employed included SW-846: Volatile Organic Compounds (VOC) by Method SW8260B (short list), Total Organic Carbon (TOC) by Method SW 9060A, Total Dissolved Solids by Method SM 2540C, Total Alkalinity by Method SM 2320 B, Anions by Method SW9056, Ammonia by Method 350.1, Total Kjeldahl Nitrogen by Method 351.2, Color by Method SM 2120B, and Hardness (as calcium carbonate) by Method SM 2340C.

VERIFICATION GUIDANCE

The analytical work was performed by TestAmerica Laboratories, Inc. in accordance with the DOD QSM, version 4.2, and QC requirements of the respective analytical methods and of the project-specific QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the DOD QSM, and the criteria as listed in the project-specific QAPP.

QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits (DLs) and limits of quantitation (LOQs)
- Holding times, sample preservation and storage
- Second source calibration verification summary
- Initial and Continuing calibration summaries
- Method blanks
- Field duplicate results
- Matrix spike/matrix spike duplicate (MS/MSD) analysis
- Laboratory control samples (LCS)
- Results reported between DL and LOQ (J-flag)
- MS tune performance
- Ambient, equipment, and trip blanks (as applicable)
- Surrogate spike recoveries
- Internal standard areas counts and retention times
- Sample storage and preservation

- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with DOD QSM, version 4.2, and project-specific QAPP criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

GENERAL NOTES:

MISSING SAMPLES

None. All samples documented on the chain of custody were received by the laboratory.

BLANKS

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between the DL and LOQ), the laboratory and/or data verifier qualified the subject results with a "J" flag. Since no qualification of associated field samples are required for blanks less than half the LOQ, no further action was taken in such instances.

VOLATILE ORGANIC COMPOUNDS (VOCs)

- There were no exceedances for VOCs.

WET CHEMISTRY ANALYTES

- According to the case narrative, sample B035M0416JA required a 1:5 dilution for chloride after original results were above the calibration curve. Use diluted sample results for this compound only. Original sample results are modified accordingly.

- The following blank sample analyses indicated blank contaminants present at concentrations equal to or greater than half the limit of quantitation (LOQ). The Blank ID, detected contaminant, and concentration are listed.

Blank ID	Analyte	Concentration (mg/L)	LOQ (mg/L)	Samples Affected
062111JE	Ammonia	0.10	0.10	No field samples in this analytical batch sampled for this analyte
	Color	25	5.0	None, associated results non-detect
	TDS	8.0 J	10	None, associated results > 5x blank concentration
MB 280-73590/1	TDS	6.00 J	10	None, associated results > 5x blank concentration
MB 280-73955/1	TDS	8.00 J	10	None, associated results > 5x blank concentration

The purpose of laboratory, equipment or trip blank analysis is to determine the existence and magnitude of contamination resulting from lab or field activities. If contamination is found in blanks the associated sample results for these analytes may be considered suspect. As per the QAPP, based on the blank contaminants present above half the LOQ, results for the specific analytes in the associated environmental samples are qualified with a "B" flag. However, in accordance with the EPA National Functional Guidelines and consistent with the QAPP, the "B" flag is **not** applied for sample results that are greater than five times (5x) the blank concentration. Thus the "B" flag is only applied to those samples for which the sample result is positive and less than five times (5x) the blank concentration.

Corrective Action: No "B" flags were applied to the result for the field samples, since associated results were either greater than 5x the blank or non-detect.

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results of the samples for VOCs are highly usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

WET CHEMISTRY ANALYTES

Based on the evaluation of all information in the analytical data groups, the results of the samples for wet chemistry analytes are highly usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

AFCEE SUMMARY

All data in Job # 280-17248-1 are valid and usable with qualifications as noted in the data review.

Signed: Concordia van Hoesel Date: 10/2/11

ATTACHMENTS

- Chain-of-Custody
- Laboratory's Case Narrative
- Qualified final data verification results on annotated Lab Sheet 2s

SAMPLE SUMMARY

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-17248-1	B035M0416JA	Water	06/21/2011 1320	06/22/2011 0930
280-17248-2EB	062111JE	Water	06/21/2011 1700	06/22/2011 0930
280-17248-3	062111JF	Water	06/21/2011 1710	06/22/2011 0930
280-17248-4TB	062111JR	Water	06/21/2011 1020	06/22/2011 0930

CASE NARRATIVE
Client: FPM Engineering Group, PC
Project: Griffiss AFB B35 LTM
Report Number: 280-17248-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
Four samples were received on 06/22/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.1oC.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples B035M0416JA (280-17248-1), 062111JE (280-17248-2), 062111JF (280-17248-3), and 062111JR (280-17248-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/02/2011.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

COLOR
Samples B035M0416JA (280-17248-1) and 062111JE (280-17248-2) were analyzed for color in accordance with SM20 2120B - Colorimetric. The samples were analyzed on 06/22/2011.

No difficulties were encountered during the color analyses.

All quality control parameters were within the acceptance limits.

ALKALINITY
Samples B035M0416JA (280-17248-1) and 062111JE (280-17248-2) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 06/28/2011.

No difficulties were encountered during the alkalinity analyses.

All quality control parameters were within the acceptance limits.

HARDNESS
Sample 062111JE (280-17248-2) was analyzed for hardness in accordance with SM20 2340C. The samples were prepared and analyzed on 07/14/2011.

No difficulties were encountered during the hardness analysis.

All quality control parameters were within the acceptance limits.

TOTAL DISSOLVED SOLIDS
Samples B035M0416JA (280-17248-1) and 062111JE (280-17248-2) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 06/27/2011.

Total Dissolved Solids was detected in method blank MB 280-73950/1 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J".

Total Dissolved Solids was detected in method blank MB 280-73955/1 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J".

No other difficulties were encountered during the TDS analyses.

All other quality control parameters were within the acceptance limits.

AMMONIA
Sample 062111JE (280-17248-2) was analyzed for ammonia in accordance with EPA Method 350.1. The samples were prepared and analyzed on 07/13/2011.

No difficulties were encountered during the ammonia analysis.

All quality control parameters were within the acceptance limits.

TOTAL KJELDAHL NITROGEN
Sample 062111JE (280-17248-2) was analyzed for total kjeldahl nitrogen in accordance with EPA Method 351.2. The samples were prepared and analyzed on 07/16/2011.

Nitrogen, Kjeldahl was detected in method blank MB 280-76660/3-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J".

No other difficulties were encountered during the TKN analysis.

All other quality control parameters were within the acceptance limits.

CHEMICAL OXYGEN DEMAND
Sample 062111JE (280-17248-2) was analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were prepared and analyzed on 06/24/2011.

No difficulties were encountered during the COD analysis.

All quality control parameters were within the acceptance limits.

ANIONS
Samples B035M0416JA (280-17248-1) and 062111JE (280-17248-2) were analyzed for anions in accordance with EPA SW-846 Method 9056. The samples were analyzed on 06/22/2011.

Sample B035M0416JA (280-17248-1) required a 5X dilution prior to analysis for Chloride. The reporting limits (RLs) and method detection limits (MDLs) have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

TOTAL ORGANIC CARBON
Samples B035M0416JA (280-17248-1) and 062111JE (280-17248-2) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 07/07/2011.

No difficulties were encountered during the TOC analyses.

All quality control parameters were within the acceptance limits.

BIOCHEMICAL OXYGEN DEMAND
Sample 062111JE (280-17248-2) was analyzed for Biochemical Oxygen Demand in accordance with SM20 5210B. The samples were prepared and analyzed on 06/22/2011.

No difficulties were encountered during the BOD analysis.

All quality control parameters were within the acceptance limits.

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: **B035M0416JA**

Lab Sample ID: 280-17248-1
Client Matrix: Water

Date Sampled: 06/21/2011 1320
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6946.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1534			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1534				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	0.79	3.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,4-Dioxane	80	U	71	220
1-Chlorohexane	0.20	U	0.17	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Chlorotoluene	0.40	U	0.17	1.0
4-Isopropyltoluene	0.40	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.20	U	0.16	1.0
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon disulfide	0.80	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.20	U	0.16	1.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	15		0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Cyclohexane	0.40	U	0.28	2.0
Dibromomethane	0.40	U	0.17	1.0

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: **B035M0416JA**

Lab Sample ID: 280-17248-1
Client Matrix: Water

Date Sampled: 06/21/2011 1320
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6946.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1534			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1534				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.40	U	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.52	J	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.38	J	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	4.3		0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 120
4-Bromofluorobenzene (Surr)	88		75 - 120
Dibromofluoromethane (Surr)	98		85 - 115
Toluene-d8 (Surr)	95		85 - 120

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: 062111JE

Lab Sample ID: 280-17248-2EB
Client Matrix: Water

Date Sampled: 06/21/2011 1700
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6947.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1557			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1557				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	0.79	3.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,4-Dioxane	80	U	71	220
1-Chlorohexane	0.20	U	0.17	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Chlorotoluene	0.40	U	0.17	1.0
4-Isopropyltoluene	0.40	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.20	U	0.16	1.0
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon disulfide	0.80	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.20	U	0.16	1.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Cyclohexane	0.40	U	0.28	2.0
Dibromomethane	0.40	U	0.17	1.0

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: 062111JE

Lab Sample ID: 280-17248-2EB
Client Matrix: Water

Date Sampled: 06/21/2011 1700
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6947.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1557			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1557				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.40	U	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 120
4-Bromofluorobenzene (Surr)	87		75 - 120
Dibromofluoromethane (Surr)	95		85 - 115
Toluene-d8 (Surr)	93		85 - 120

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: 062111JF

Lab Sample ID: 280-17248-3
Client Matrix: Water

Date Sampled: 06/21/2011 1710
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6948.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1619			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1619				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	0.79	3.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,4-Dioxane	80	U	71	220
1-Chlorohexane	0.20	U	0.17	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Chlorotoluene	0.40	U	0.17	1.0
4-Isopropyltoluene	0.40	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.20	U	0.16	1.0
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon disulfide	0.80	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.20	U	0.16	1.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Cyclohexane	0.40	U	0.28	2.0
Dibromomethane	0.40	U	0.17	1.0

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: 062111JF

Lab Sample ID: 280-17248-3
Client Matrix: Water

Date Sampled: 06/21/2011 1710
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6948.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1619			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1619				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.40	U	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 120
4-Bromofluorobenzene (Surr)	93		75 - 120
Dibromofluoromethane (Surr)	101		85 - 115
Toluene-d8 (Surr)	101		85 - 120

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: **062111JR**

Lab Sample ID: 280-17248-4TB
Client Matrix: Water

Date Sampled: 06/21/2011 1020
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6949.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1642			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1642				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	0.79	3.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,4-Dioxane	80	U	71	220
1-Chlorohexane	0.20	U	0.17	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Chlorotoluene	0.40	U	0.17	1.0
4-Isopropyltoluene	0.40	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.20	U	0.16	1.0
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon disulfide	0.80	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.20	U	0.16	1.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Cyclohexane	0.40	U	0.28	2.0
Dibromomethane	0.40	U	0.17	1.0

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: **062111JR**

Lab Sample ID: 280-17248-4TB
Client Matrix: Water

Date Sampled: 06/21/2011 1020
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6949.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1642			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1642				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.40	U	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 120
4-Bromofluorobenzene (Surr)	91		75 - 120
Dibromofluoromethane (Surr)	97		85 - 115
Toluene-d8 (Surr)	97		85 - 120

General Chemistry

Client Sample ID: **B035M0416JA**

Lab Sample ID: 280-17248-1
Client Matrix: Water

Date Sampled: 06/21/2011 1320
Date Received: 06/22/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Bromide	0.24	J	mg/L	0.11	0.50	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1428						
Nitrate as N	0.10	U	mg/L	0.042	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1428						
Chloride	230		mg/L	1.3	15	5.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 2100						
Nitrite as N	0.10	U	mg/L	0.049	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1428						
Fluoride	0.10	U	mg/L	0.060	1.0	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1428						
Nitrate Nitrite as N	0.10	U	mg/L	0.042	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1428						
Orthophosphate as P	0.20	U	mg/L	0.19	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1428						
Sulfate	14		mg/L	0.23	5.0	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1428						
Total Organic Carbon - Quad	1.5		mg/L	0.16	1.0	1.0	9060A
Analysis Batch: 280-75698	Analysis Date: 07/07/2011 2146						
Color	5.0	U	PCU	5.0	5.0	1.0	SM 2120B
Analysis Batch: 280-73424	Analysis Date: 06/22/2011 1634						
Alkalinity	210		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-74376	Analysis Date: 06/28/2011 1800						
Total Dissolved Solids	750		mg/L	4.7	10	1.0	SM 2540C
Analysis Batch: 280-73950	Analysis Date: 06/27/2011 0816						

General Chemistry

Client Sample ID: **062111JE**

Lab Sample ID: 280-17248-2EB
Client Matrix: Water

Date Sampled: 06/21/2011 1700
Date Received: 06/22/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Ammonia	0.10		mg/L	0.022	0.10	1.0	350.1
Analysis Batch: 280-76458	Analysis Date: 07/13/2011 1354						
Nitrogen, Kjeldahl	0.33	J	mg/L	0.077	1.0	1.0	351.2
Analysis Batch: 280-76964	Analysis Date: 07/16/2011 1948						
Prep Batch: 280-76660	Prep Date: 07/14/2011 1645						
Chemical Oxygen Demand	10	U	mg/L	4.1	20	1.0	410.4
Analysis Batch: 280-73734	Analysis Date: 06/24/2011 1034						
Bromide	0.20	U	mg/L	0.11	0.50	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1518						
Nitrate as N	0.10	U	mg/L	0.042	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1518						
Chloride	0.50	U	mg/L	0.25	3.0	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1518						
Nitrite as N	0.10	U	mg/L	0.049	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1518						
Fluoride	0.10	U	mg/L	0.060	1.0	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1518						
Nitrate Nitrite as N	0.10	U	mg/L	0.042	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1518						
Orthophosphate as P	0.20	U	mg/L	0.19	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1518						
Sulfate	0.50	U	mg/L	0.23	5.0	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1518						
Total Organic Carbon - Quad	0.30	J	mg/L	0.16	1.0	1.0	9060A
Analysis Batch: 280-75698	Analysis Date: 07/07/2011 2240						
Color	25		PCU	5.0	5.0	1.0	SM 2120B
Analysis Batch: 280-73424	Analysis Date: 06/22/2011 1634						
Alkalinity	1.1	U	mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-74376	Analysis Date: 06/28/2011 1806						
Hardness as calcium carbonate	1.6	J	mg/L	1.3	5.0	1.0	SM 2340C
Analysis Batch: 280-76596	Analysis Date: 07/14/2011 1137						
Total Dissolved Solids	8.0	J	mg/L	4.7	10	1.0	SM 2540C
Analysis Batch: 280-73955	Analysis Date: 06/27/2011 0829						
Biochemical Oxygen Demand	0.60	U	mg/L	0.24	2.0	1.0	SM5210B
Analysis Batch: 280-73229	Analysis Date: 06/22/2011 0522						

Appendix D
Raw Laboratory Data

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-17248-1

Job Description: Griffiss AFB B35 LTM

For:
FPM Engineering Group, PC
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Attention: Daniel Baldyga



Approved for release.
Elaine Walker
Project Manager I
7/27/2011 1:05 PM

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07/27/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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CASE NARRATIVE
Client: FPM Engineering Group, PC
Project: Griffiss AFB B35 LTM
Report Number: 280-17248-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Four samples were received on 06/22/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.1oC.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples B035M0416JA (280-17248-1), 062111JE (280-17248-2), 062111JF (280-17248-3), and 062111JR (280-17248-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/02/2011.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

COLOR

Samples B035M0416JA (280-17248-1) and 062111JE (280-17248-2) were analyzed for color in accordance with SM20 2120B - Colorimetric. The samples were analyzed on 06/22/2011.

No difficulties were encountered during the color analyses.

All quality control parameters were within the acceptance limits.

ALKALINITY

Samples B035M0416JA (280-17248-1) and 062111JE (280-17248-2) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 06/28/2011.

No difficulties were encountered during the alkalinity analyses.

All quality control parameters were within the acceptance limits.

HARDNESS

Sample 062111JE (280-17248-2) was analyzed for hardness in accordance with SM20 2340C. The samples were prepared and analyzed on 07/14/2011.

No difficulties were encountered during the hardness analysis.

All quality control parameters were within the acceptance limits.

TOTAL DISSOLVED SOLIDS

Samples B035M0416JA (280-17248-1) and 062111JE (280-17248-2) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 06/27/2011.

Total Dissolved Solids was detected in method blank MB 280-73950/1 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”.

Total Dissolved Solids was detected in method blank MB 280-73955/1 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”.

No other difficulties were encountered during the TDS analyses.

All other quality control parameters were within the acceptance limits.

AMMONIA
Sample 062111JE (280-17248-2) was analyzed for ammonia in accordance with EPA Method 350.1. The samples were prepared and analyzed on 07/13/2011.

No difficulties were encountered during the ammonia analysis.

All quality control parameters were within the acceptance limits.

TOTAL KJELDAHL NITROGEN
Sample 062111JE (280-17248-2) was analyzed for total kjeldahl nitrogen in accordance with EPA Method 351.2. The samples were prepared and analyzed on 07/16/2011.

Nitrogen, Kjeldahl was detected in method blank MB 280-76660/3-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”.

No other difficulties were encountered during the TKN analysis.

All other quality control parameters were within the acceptance limits.

CHEMICAL OXYGEN DEMAND
Sample 062111JE (280-17248-2) was analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were prepared and analyzed on 06/24/2011.

No difficulties were encountered during the COD analysis.

All quality control parameters were within the acceptance limits.

ANIONS
Samples B035M0416JA (280-17248-1) and 062111JE (280-17248-2) were analyzed for anions in accordance with EPA SW-846 Method 9056. The samples were analyzed on 06/22/2011.

Sample B035M0416JA (280-17248-1) required a 5X dilution prior to analysis for Chloride. The reporting limits (RLs) and method detection limits (MDLs) have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

TOTAL ORGANIC CARBON
Samples B035M0416JA (280-17248-1) and 062111JE (280-17248-2) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 07/07/2011.

No difficulties were encountered during the TOC analyses.

All quality control parameters were within the acceptance limits.

BIOCHEMICAL OXYGEN DEMAND
Sample 062111JE (280-17248-2) was analyzed for Biochemical Oxygen Demand in accordance with SM20 5210B. The samples were prepared and analyzed on 06/22/2011.

No difficulties were encountered during the BOD analysis.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-17248-1	B035M0416JA	Water	06/21/2011 1320	06/22/2011 0930
280-17248-2EB	062111JE	Water	06/21/2011 1700	06/22/2011 0930
280-17248-3	062111JF	Water	06/21/2011 1710	06/22/2011 0930
280-17248-4TB	062111JR	Water	06/21/2011 1020	06/22/2011 0930

EXECUTIVE SUMMARY - Detections

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-17248-1	**B035M0416JA**					
cis-1,2-Dichloroethene		15		1.0	ug/L	8260B/DoD
trans-1,2-Dichloroethene		0.52	J	1.0	ug/L	8260B/DoD
Trichloroethene		0.38	J	1.0	ug/L	8260B/DoD
Vinyl chloride		4.3		1.5	ug/L	8260B/DoD
Bromide		0.24	J	0.50	mg/L	9056A
Chloride		230		15	mg/L	9056A
Sulfate		14		5.0	mg/L	9056A
Total Organic Carbon - Quad		1.5		1.0	mg/L	9060A
Alkalinity		210		5.0	mg/L	SM 2320B
Total Dissolved Solids		750		10	mg/L	SM 2540C
280-17248-2EB	**062111JE**					
Ammonia		0.10		0.10	mg/L	350.1
Nitrogen, Kjeldahl		0.33	J	1.0	mg/L	351.2
Total Organic Carbon - Quad		0.30	J	1.0	mg/L	9060A
Color		25		5.0	PCU	SM 2120B
Hardness as calcium carbonate		1.6	J	5.0	mg/L	SM 2340C
Total Dissolved Solids		8.0	J	10	mg/L	SM 2540C

METHOD SUMMARY

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B/DoD	
Purge and Trap	TAL DEN		SW846 5030B
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Nitrogen, Total Kjeldahl	TAL DEN	MCAWW 351.2	
Nitrogen, Total Kjeldahl			MCAWW 351.2
COD	TAL DEN	MCAWW 410.4	
Anions, Ion Chromatography	TAL DEN	SW846 9056A	
Organic Carbon, Total (TOC)	TAL DEN	SW846 9060A	
Color, Colorimetric	TAL DEN	SM SM 2120B	
Alkalinity	TAL DEN	SM SM 2320B	
Hardness, Total	TAL DEN	SM SM 2340C	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
BOD, 5 Day	TAL DEN	SM SM5210B	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method	Analyst	Analyst ID
SW846 8260B/DoD	Meier, Greg P	GPM
MCAWW 350.1	Scott, Samantha J	SJS
MCAWW 351.2	Woolley, Mark	MW
MCAWW 410.4	Taylor, Juli M	JMT
SW846 9056A	Kudla, Ewa	EK
SW846 9060A	Yates, George E	GEY
SM SM 2120B	Ayala, Delaina	DA
SM SM 2320B	Allen, Andrew J	AJA
SM SM 2340C	Allen, Andrew J	AJA
SM SM 2540C	Domnick, Brandon J	BJD
SM SM5210B	Ayala, Delaina	DA

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: **B035M0416JA**

Lab Sample ID: 280-17248-1
Client Matrix: Water

Date Sampled: 06/21/2011 1320
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6946.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1534			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1534				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	0.79	3.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,4-Dioxane	80	U	71	220
1-Chlorohexane	0.20	U	0.17	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Chlorotoluene	0.40	U	0.17	1.0
4-Isopropyltoluene	0.40	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.20	U	0.16	1.0
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon disulfide	0.80	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.20	U	0.16	1.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	15		0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Cyclohexane	0.40	U	0.28	2.0
Dibromomethane	0.40	U	0.17	1.0

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: **B035M0416JA**

Lab Sample ID: 280-17248-1
Client Matrix: Water

Date Sampled: 06/21/2011 1320
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6946.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1534			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1534				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.40	U	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.52	J	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.38	J	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	4.3		0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 120
4-Bromofluorobenzene (Surr)	88		75 - 120
Dibromofluoromethane (Surr)	98		85 - 115
Toluene-d8 (Surr)	95		85 - 120

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: **062111JE**

Lab Sample ID: 280-17248-2EB
Client Matrix: Water

Date Sampled: 06/21/2011 1700
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6947.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1557			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1557				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	0.79	3.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,4-Dioxane	80	U	71	220
1-Chlorohexane	0.20	U	0.17	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Chlorotoluene	0.40	U	0.17	1.0
4-Isopropyltoluene	0.40	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.20	U	0.16	1.0
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon disulfide	0.80	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.20	U	0.16	1.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Cyclohexane	0.40	U	0.28	2.0
Dibromomethane	0.40	U	0.17	1.0

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: **062111JE**

Lab Sample ID: 280-17248-2EB
Client Matrix: Water

Date Sampled: 06/21/2011 1700
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6947.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1557			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1557				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.40	U	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 120
4-Bromofluorobenzene (Surr)	87		75 - 120
Dibromofluoromethane (Surr)	95		85 - 115
Toluene-d8 (Surr)	93		85 - 120

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: **062111JF**

Lab Sample ID: 280-17248-3
Client Matrix: Water

Date Sampled: 06/21/2011 1710
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6948.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1619			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1619				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	0.79	3.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,4-Dioxane	80	U	71	220
1-Chlorohexane	0.20	U	0.17	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Chlorotoluene	0.40	U	0.17	1.0
4-Isopropyltoluene	0.40	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.20	U	0.16	1.0
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon disulfide	0.80	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.20	U	0.16	1.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Cyclohexane	0.40	U	0.28	2.0
Dibromomethane	0.40	U	0.17	1.0

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: **062111JF**

Lab Sample ID: 280-17248-3
Client Matrix: Water

Date Sampled: 06/21/2011 1710
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6948.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1619			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1619				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.40	U	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 120
4-Bromofluorobenzene (Surr)	93		75 - 120
Dibromofluoromethane (Surr)	101		85 - 115
Toluene-d8 (Surr)	101		85 - 120

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Client Sample ID: **062111JR**

Lab Sample ID: 280-17248-4TB
Client Matrix: Water

Date Sampled: 06/21/2011 1020
Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6949.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1642			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1642				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	0.79	3.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,4-Dioxane	80	U	71	220
1-Chlorohexane	0.20	U	0.17	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Chlorotoluene	0.40	U	0.17	1.0
4-Isopropyltoluene	0.40	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.20	U	0.16	1.0
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon disulfide	0.80	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.20	U	0.16	1.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Cyclohexane	0.40	U	0.28	2.0
Dibromomethane	0.40	U	0.17	1.0

Client: FPM Engineering Group, PC | Job Number: 280-17248-1

Client Sample ID: **062111JR**

Lab Sample ID: 280-17248-4TB | Date Sampled: 06/21/2011 1020
Client Matrix: Water | Date Received: 06/22/2011 0930

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	RR6949.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 1642			Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 1642				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.40	U	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 120
4-Bromofluorobenzene (Surr)	91		75 - 120
Dibromofluoromethane (Surr)	97		85 - 115
Toluene-d8 (Surr)	97		85 - 120

General Chemistry

Client Sample ID: **B035M0416JA**

Lab Sample ID: 280-17248-1 Date Sampled: 06/21/2011 1320
Client Matrix: Water Date Received: 06/22/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Bromide	0.24	J	mg/L	0.11	0.50	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1428						
Nitrate as N	0.10	U	mg/L	0.042	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1428						
Chloride	230		mg/L	1.3	15	5.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 2100						
Nitrite as N	0.10	U	mg/L	0.049	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1428						
Fluoride	0.10	U	mg/L	0.060	1.0	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1428						
Nitrate Nitrite as N	0.10	U	mg/L	0.042	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1428						
Orthophosphate as P	0.20	U	mg/L	0.19	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1428						
Sulfate	14		mg/L	0.23	5.0	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1428						
Total Organic Carbon - Quad	1.5		mg/L	0.16	1.0	1.0	9060A
Analysis Batch: 280-75698	Analysis Date: 07/07/2011 2146						
Color	5.0	U	PCU	5.0	5.0	1.0	SM 2120B
Analysis Batch: 280-73424	Analysis Date: 06/22/2011 1634						
Alkalinity	210		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-74376	Analysis Date: 06/28/2011 1800						
Total Dissolved Solids	750		mg/L	4.7	10	1.0	SM 2540C
Analysis Batch: 280-73950	Analysis Date: 06/27/2011 0816						

General Chemistry

Client Sample ID: **062111JE**

Lab Sample ID: 280-17248-2EB Date Sampled: 06/21/2011 1700
Client Matrix: Water Date Received: 06/22/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Ammonia	0.10		mg/L	0.022	0.10	1.0	350.1
Analysis Batch: 280-76458	Analysis Date: 07/13/2011 1354						
Nitrogen, Kjeldahl	0.33	J	mg/L	0.077	1.0	1.0	351.2
Analysis Batch: 280-76964	Analysis Date: 07/16/2011 1948						
Prep Batch: 280-76660	Prep Date: 07/14/2011 1645						
Chemical Oxygen Demand	10	U	mg/L	4.1	20	1.0	410.4
Analysis Batch: 280-73734	Analysis Date: 06/24/2011 1034						
Bromide	0.20	U	mg/L	0.11	0.50	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1518						
Nitrate as N	0.10	U	mg/L	0.042	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1518						
Chloride	0.50	U	mg/L	0.25	3.0	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1518						
Nitrite as N	0.10	U	mg/L	0.049	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1518						
Fluoride	0.10	U	mg/L	0.060	1.0	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1518						
Nitrate Nitrite as N	0.10	U	mg/L	0.042	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1518						
Orthophosphate as P	0.20	U	mg/L	0.19	0.50	1.0	9056A
Analysis Batch: 280-73686	Analysis Date: 06/22/2011 1518						
Sulfate	0.50	U	mg/L	0.23	5.0	1.0	9056A
Analysis Batch: 280-73687	Analysis Date: 06/22/2011 1518						
Total Organic Carbon - Quad	0.30	J	mg/L	0.16	1.0	1.0	9060A
Analysis Batch: 280-75698	Analysis Date: 07/07/2011 2240						
Color	25		PCU	5.0	5.0	1.0	SM 2120B
Analysis Batch: 280-73424	Analysis Date: 06/22/2011 1634						
Alkalinity	1.1	U	mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-74376	Analysis Date: 06/28/2011 1806						
Hardness as calcium carbonate	1.6	J	mg/L	1.3	5.0	1.0	SM 2340C
Analysis Batch: 280-76596	Analysis Date: 07/14/2011 1137						
Total Dissolved Solids	8.0	J	mg/L	4.7	10	1.0	SM 2540C
Analysis Batch: 280-73955	Analysis Date: 06/27/2011 0829						
Biochemical Oxygen Demand	0.60	U	mg/L	0.24	2.0	1.0	SM5210B
Analysis Batch: 280-73229	Analysis Date: 06/22/2011 0522						

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Surrogate Recovery Report

8260B/DoD Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-17248-1	B035M0416JA	98	93	95	88
280-17248-2	062111JE	95	88	93	87
280-17248-3	062111JF	101	97	101	93
280-17248-4	062111JR	97	91	97	91
MB 280-75056/6		100	94	97	95
LCS 280-75056/5		98	93	101	96

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	85-115
DCA = 1,2-Dichloroethane-d4 (Surr)	70-120
TOL = Toluene-d8 (Surr)	85-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-75056

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	MB 280-75056/6	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	RR6930.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 0920	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 0920				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	0.79	3.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,4-Dioxane	80	U	71	220
1-Chlorohexane	0.20	U	0.17	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Chlorotoluene	0.40	U	0.17	1.0
4-Isopropyltoluene	0.40	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.20	U	0.16	1.0
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon disulfide	0.80	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.20	U	0.16	1.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Cyclohexane	0.40	U	0.28	2.0

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-75056

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	MB 280-75056/6	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	RR6930.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 0920	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 0920				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Dibromomethane	0.40	U	0.17	1.0
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.40	U	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	70 - 120
4-Bromofluorobenzene (Surr)	95	75 - 120
Dibromofluoromethane (Surr)	100	85 - 115
Toluene-d8 (Surr)	97	85 - 120

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Lab Control Sample - Batch: 280-75056

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	LCS 280-75056/5	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	RR6929.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 0858	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 0858				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	5.00	4.18	84	80 - 130	
1,1,1-Trichloroethane	5.00	4.59	92	65 - 130	
1,1,2,2-Tetrachloroethane	5.00	4.27	85	65 - 130	
1,1-Dichloroethane	5.00	4.53	91	70 - 135	
1,1-Dichloroethene	5.00	5.37	107	70 - 130	
1,1-Dichloropropene	5.00	4.85	97	75 - 130	
1,2,3-Trichlorobenzene	5.00	3.96	79	55 - 140	
1,2,3-Trichloropropane	5.00	4.22	84	75 - 125	
1,2,4-Trichlorobenzene	5.00	3.94	79	65 - 135	
1,2,4-Trimethylbenzene	5.00	4.25	85	75 - 130	
1,2-Dibromo-3-Chloropropane	5.00	4.00	80	50 - 130	J
1,2-Dichlorobenzene	5.00	4.20	84	70 - 120	
1,2-Dichloroethane	5.00	4.39	88	70 - 130	
1,2-Dichloropropane	5.00	4.45	89	75 - 125	
1,3,5-Trimethylbenzene	5.00	4.45	89	75 - 130	
1,3-Dichlorobenzene	5.00	4.10	82	75 - 125	
1,3-Dichloropropane	5.00	4.41	88	75 - 125	
1,4-Dichlorobenzene	5.00	4.29	86	75 - 125	
2,2-Dichloropropane	5.00	4.73	95	70 - 135	
2-Butanone (MEK)	20.0	23.8	119	30 - 150	
2-Chlorotoluene	5.00	4.31	86	75 - 125	
2-Hexanone	20.0	19.0	95	55 - 130	
4-Chlorotoluene	5.00	4.28	86	75 - 130	
4-Isopropyltoluene	5.00	4.29	86	75 - 130	
4-Methyl-2-pentanone (MIBK)	20.0	20.0	100	60 - 135	
Acetone	20.0	19.9	99	40 - 140	
Benzene	5.00	4.46	89	80 - 120	
Bromobenzene	5.00	4.17	83	75 - 125	
Bromoform	5.00	4.32	86	70 - 130	
Bromomethane	5.00	5.16	103	30 - 145	
Carbon disulfide	5.00	3.62	72	35 - 160	
Carbon tetrachloride	5.00	4.84	97	65 - 140	
Chlorobenzene	5.00	4.25	85	80 - 120	
Chlorobromomethane	5.00	4.44	89	65 - 130	
Chlorodibromomethane	5.00	4.36	87	60 - 135	
Chloroethane	5.00	4.98	100	60 - 135	
Chloroform	5.00	4.38	88	65 - 135	
Chloromethane	5.00	4.85	97	40 - 125	
cis-1,2-Dichloroethene	5.00	4.54	91	70 - 125	
cis-1,3-Dichloropropene	5.00	4.36	87	70 - 130	
Dibromomethane	5.00	4.38	88	75 - 125	
Dichlorobromomethane	5.00	4.35	87	75 - 120	
Dichlorodifluoromethane	5.00	4.90	98	30 - 155	
Ethylbenzene	5.00	4.48	90	75 - 125	
Ethylene Dibromide	5.00	4.47	89	80 - 120	
Hexachlorobutadiene	5.00	4.20	84	50 - 140	

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Lab Control Sample - Batch: 280-75056

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	LCS 280-75056/5	Analysis Batch:	280-75056	Instrument ID:	MSV_R2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	RR6929.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	07/02/2011 0858	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	07/02/2011 0858				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Isopropylbenzene	5.00	4.90	98	75 - 125	
Methyl tert-butyl ether	5.00	3.90	78	65 - 125	J
Methylene Chloride	5.00	4.66	93	55 - 140	J
m-Xylene & p-Xylene	10.0	9.00	90	75 - 130	
Naphthalene	5.00	3.84	77	55 - 140	
n-Butylbenzene	5.00	4.63	93	70 - 135	
N-Propylbenzene	5.00	4.43	89	70 - 130	
o-Xylene	5.00	4.37	87	80 - 120	
sec-Butylbenzene	5.00	4.48	90	70 - 125	
Styrene	5.00	4.39	88	65 - 135	
tert-Butylbenzene	5.00	4.47	89	70 - 130	
Tetrachloroethene	5.00	4.58	92	45 - 150	
Toluene	5.00	4.66	93	75 - 120	
trans-1,2-Dichloroethene	5.00	4.80	96	60 - 140	
trans-1,3-Dichloropropene	5.00	4.37	87	55 - 140	
Trichloroethene	5.00	4.80	96	70 - 125	
Trichlorofluoromethane	5.00	4.74	95	60 - 145	
Vinyl chloride	5.00	5.16	103	50 - 145	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	70 - 120
4-Bromofluorobenzene (Surr)	96	75 - 120
Dibromofluoromethane (Surr)	98	85 - 115
Toluene-d8 (Surr)	101	85 - 120

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-76458

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-76458/68	Analysis Batch:	280-76458	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0713NXNB
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	07/13/2011 1330	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Ammonia	0.050	U	0.022	0.10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-76458

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-76458/69	Analysis Batch:	280-76458	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0713NXNB
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	07/13/2011 1332	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				
LCSD Lab Sample ID:	LCSD 280-76458/70	Analysis Batch:	280-76458	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0713NXNB
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	07/13/2011 1333	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ammonia	101	102	90 - 110	1	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-76458

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-76458/69	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-76458/70
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	07/13/2011 1332			Analysis Date:	07/13/2011 1333
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia	5.00	5.00	5.05	5.08

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-76660

Method: 351.2
Preparation: 351.2

Lab Sample ID:	MB 280-76660/3-A	Analysis Batch:	280-76964	Instrument ID:	WC_Astoria
Client Matrix:	Water	Prep Batch:	280-76660	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	07/16/2011 1920	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	07/14/2011 1645				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Nitrogen, Kjeldahl	0.176	J	0.077	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-76660

Method: 351.2
Preparation: 351.2

LCS Lab Sample ID:	LCS 280-76660/1-A	Analysis Batch:	280-76964	Instrument ID:	WC_Astoria
Client Matrix:	Water	Prep Batch:	280-76660	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	07/16/2011 1918	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	07/14/2011 1645				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-76660/2-A	Analysis Batch:	280-76964	Instrument ID:	WC_Astoria
Client Matrix:	Water	Prep Batch:	280-76660	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	07/16/2011 1919	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	07/14/2011 1645				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Nitrogen, Kjeldahl	94	93	90 - 110	1	25		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-76660

Method: 351.2
Preparation: 351.2

LCS Lab Sample ID:	LCS 280-76660/1-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-76660/2-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	07/16/2011 1918			Analysis Date:	07/16/2011 1919
Prep Date:	07/14/2011 1645			Prep Date:	07/14/2011 1645
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrogen, Kjeldahl	6.00	6.00	5.65	5.60

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-73734

Method: 410.4
Preparation: N/A

Lab Sample ID:	MB 280-73734/5	Analysis Batch:	280-73734	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	06/24/2011 1034	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Chemical Oxygen Demand	10	U	4.1	20

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-73734

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-73734/3	Analysis Batch:	280-73734	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	06/24/2011 1034	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-73734/4	Analysis Batch:	280-73734	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	06/24/2011 1034	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chemical Oxygen Demand	96	93	90 - 110	3	11		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-73734

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-73734/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-73734/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/24/2011 1034			Analysis Date:	06/24/2011 1034
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chemical Oxygen Demand	100	100	95.8	93.1

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-73686

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 280-73686/6	Analysis Batch:	280-73686	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	115.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1107	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Nitrate as N	0.10	U	0.042	0.50
Nitrite as N	0.10	U	0.049	0.50
Nitrate Nitrite as N	0.10	U	0.042	0.50
Orthophosphate as P	0.20	U	0.19	0.50

Method Reporting Limit Check - Batch: 280-73686

Method: 9056A
Preparation: N/A

Lab Sample ID:	MRL 280-73686/3	Analysis Batch:	280-73686	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1016	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	0.200	0.194	97	50 - 150	J
Nitrite as N	0.200	0.192	96	50 - 150	J
Orthophosphate as P	0.200	0.20	57	50 - 150	U

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-73686

Method: 9056A
Preparation: N/A

LCS Lab Sample ID:	LCS 280-73686/4	Analysis Batch:	280-73686	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	113.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1033	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-73686/5	Analysis Batch:	280-73686	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1050	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Nitrate as N	100	100	87 - 110	0	10		
Nitrite as N	102	102	87 - 112	0	10		
Orthophosphate as P	98	98	90 - 110	1	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-73686

Method: 9056A
Preparation: N/A

LCS Lab Sample ID:	LCS 280-73686/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-73686/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/22/2011 1033			Analysis Date:	06/22/2011 1050
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate as N	5.00	5.00	5.01	4.99
Nitrite as N	5.00	5.00	5.12	5.11
Orthophosphate as P	5.00	5.00	4.89	4.91

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-73686

Method: 9056A
Preparation: N/A

MS Lab Sample ID:	280-17248-2	Analysis Batch:	280-73686	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	130.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1552			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-17248-2	Analysis Batch:	280-73686	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	131.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1608			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate as N	99	101	87 - 110	1	10		
Nitrite as N	103	104	87 - 112	1	10		
Orthophosphate as P	103	105	80 - 120	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-73686

Method: 9056A
Preparation: N/A

MS Lab Sample ID:	280-17248-2	Units:	mg/L	MSD Lab Sample ID:	280-17248-2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/22/2011 1552			Analysis Date:	06/22/2011 1608
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate as N	0.10	U	5.00	5.00	4.96	5.03
Nitrite as N	0.10	U	5.00	5.00	5.17	5.22
Orthophosphate as P	0.20	U	5.00	5.00	5.17	5.23

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Duplicate - Batch: 280-73686

Method: 9056A
Preparation: N/A

Lab Sample ID:	280-17248-2	Analysis Batch:	280-73686	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	129.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1535	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Nitrate as N	0.10	U	0.10	NC	15	U
Nitrite as N	0.10	U	0.10	NC	15	U
Orthophosphate as P	0.20	U	0.20	NC	15	U

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-73687

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 280-73687/6	Analysis Batch:	280-73687	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	115.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1107	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Bromide	0.20	U	0.11	0.50
Chloride	0.50	U	0.25	3.0
Fluoride	0.10	U	0.060	1.0
Sulfate	0.50	U	0.23	5.0

Method Reporting Limit Check - Batch: 280-73687

Method: 9056A
Preparation: N/A

Lab Sample ID:	MRL 280-73687/3	Analysis Batch:	280-73687	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1016	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	0.200	0.191	96	50 - 150	J
Chloride	1.00	0.951	95	50 - 150	J
Fluoride	0.200	0.184	92	50 - 150	J
Sulfate	1.00	0.989	99	50 - 150	J

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-73687

Method: 9056A
Preparation: N/A

LCS Lab Sample ID:	LCS 280-73687/4	Analysis Batch:	280-73687	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	113.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1033	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-73687/5	Analysis Batch:	280-73687	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1050	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Bromide	101	101	86 - 110	0	10		
Chloride	97	97	89 - 110	0	10		
Fluoride	99	99	88 - 111	0	10		
Sulfate	100	99	86 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-73687

Method: 9056A
Preparation: N/A

LCS Lab Sample ID:	LCS 280-73687/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-73687/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/22/2011 1033			Analysis Date:	06/22/2011 1050
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Bromide	5.00	5.00	5.06	5.06
Chloride	25.0	25.0	24.3	24.2
Fluoride	5.00	5.00	4.95	4.94
Sulfate	25.0	25.0	24.9	24.8

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-73687

Method: 9056A
Preparation: N/A

MS Lab Sample ID:	280-17248-2	Analysis Batch:	280-73687	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	130.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1552			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-17248-2	Analysis Batch:	280-73687	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	131.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1608			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Bromide	103	104	86 - 110	1	10		
Chloride	102	103	89 - 110	1	10		
Fluoride	97	98	88 - 111	1	10		
Sulfate	101	102	86 - 110	1	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-73687

Method: 9056A
Preparation: N/A

MS Lab Sample ID:	280-17248-2	Units:	mg/L	MSD Lab Sample ID:	280-17248-2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/22/2011 1552			Analysis Date:	06/22/2011 1608
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
Bromide	0.20	U	5.00	5.00	5.16	5.20
Chloride	0.50	U	25.0	25.0	25.4	25.7
Fluoride	0.10	U	5.00	5.00	4.87	4.92
Sulfate	0.50	U	25.0	25.0	25.3	25.5

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Duplicate - Batch: 280-73687

Method: 9056A
Preparation: N/A

Lab Sample ID:	280-17248-2	Analysis Batch:	280-73687	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	129.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/22/2011 1535	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Bromide	0.20	U	0.20	NC	15	U
Chloride	0.50	U	0.50	NC	15	U
Fluoride	0.10	U	0.10	NC	15	U
Sulfate	0.50	U	0.50	NC	15	U

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-75698

Method: 9060A
Preparation: N/A

Lab Sample ID:	MB 280-75698/5	Analysis Batch:	280-75698	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	070711.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	07/07/2011 1652	Units:	mg/L	Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Total Organic Carbon - Quad	0.25	U	0.16	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-75698

Method: 9060A
Preparation: N/A

LCS Lab Sample ID:	LCS 280-75698/3	Analysis Batch:	280-75698	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	070711.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	07/07/2011 1614	Units:	mg/L	Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-75698/4	Analysis Batch:	280-75698	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	070711.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	07/07/2011 1634	Units:	mg/L	Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Quad	100	100	86 - 114	0	12		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-75698

Method: 9060A
Preparation: N/A

LCS Lab Sample ID:	LCS 280-75698/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-75698/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	07/07/2011 1614			Analysis Date:	07/07/2011 1634
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Quad	25.0	25.0	24.9	24.9

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-75698

Method: 9060A
Preparation: N/A

MS Lab Sample ID:	280-17248-1	Analysis Batch:	280-75698	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	070711.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/07/2011 2203			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-17248-1	Analysis Batch:	280-75698	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	070711.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/07/2011 2222			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Quad	100	100	86 - 114	0	12		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-75698

Method: 9060A
Preparation: N/A

MS Lab Sample ID:	280-17248-1	Units:	mg/L	MSD Lab Sample ID:	280-17248-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	07/07/2011 2203			Analysis Date:	07/07/2011 2222
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Quad	1.5	25.0	25.0	26.5	26.6

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-73424

Method: SM 2120B
Preparation: N/A

Lab Sample ID:	MB 280-73424/1	Analysis Batch:	280-73424	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	06/22/2011 1634	Units:	PCU	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Color	5.0	U	5.0	5.0

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-74376

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-74376/33	Analysis Batch:	280-74376	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	062811.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/28/2011 1530	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Alkalinity	1.1	U	1.1	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-74376

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-74376/31	Analysis Batch:	280-74376	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	062811.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/28/2011 1513	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-74376/32	Analysis Batch:	280-74376	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	062811.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/28/2011 1522	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity	103	103	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-74376

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-74376/31	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-74376/32
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/28/2011 1513			Analysis Date:	06/28/2011 1522
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity	200	200	205	206

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-76596

Method: SM 2340C
Preparation: N/A

Lab Sample ID:	MB 280-76596/3	Analysis Batch:	280-76596	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	07/14/2011 1137	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Hardness as calcium carbonate	1.5	U	1.3	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-76596

Method: SM 2340C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-76596/1	Analysis Batch:	280-76596	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	07/14/2011 1137	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-76596/2	Analysis Batch:	280-76596	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	07/14/2011 1137	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Hardness as calcium carbonate	98	99	90 - 110	1	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-76596

Method: SM 2340C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-76596/1	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-76596/2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	07/14/2011 1137			Analysis Date:	07/14/2011 1137
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Hardness as calcium carbonate	403	403	396	399

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-73950

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-73950/1	Analysis Batch:	280-73950	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/27/2011 0816	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Total Dissolved Solids	6.00	J	4.7	10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-73950

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-73950/2	Analysis Batch:	280-73950	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/27/2011 0816	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-73950/3	Analysis Batch:	280-73950	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/27/2011 0816	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids	100	99	86 - 110	1	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-73950

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-73950/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-73950/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/27/2011 0816			Analysis Date:	06/27/2011 0816
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	500	500	498	495

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-73955

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-73955/1	Analysis Batch:	280-73955	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/27/2011 0829	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Total Dissolved Solids	8.00	J	4.7	10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-73955

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-73955/2	Analysis Batch:	280-73955	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/27/2011 0829	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-73955/3	Analysis Batch:	280-73955	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/27/2011 0829	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids	100	100	86 - 110	0	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-73955

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-73955/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-73955/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/27/2011 0829			Analysis Date:	06/27/2011 0829
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	500	500	501	502

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Method Blank - Batch: 280-73229

Method: SM5210B
Preparation: N/A

Lab Sample ID:	MB 280-73229/36	Analysis Batch:	280-73229	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	06/22/2011 0522	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Biochemical Oxygen Demand	0.60	U	0.24	2.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-73229

Method: SM5210B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-73229/34	Analysis Batch:	280-73229	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	06/22/2011 0522	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-73229/35	Analysis Batch:	280-73229	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	06/22/2011 0522	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Biochemical Oxygen Demand	101	99	85 - 115	3	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-73229

Method: SM5210B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-73229/34	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-73229/35
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/22/2011 0522			Analysis Date:	06/22/2011 0522
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Biochemical Oxygen Demand	198	198	201	195

DATA REPORTING QUALIFIERS

Client: FPM Engineering Group, PC Job Number: 280-17248-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	U	Undetected at the Limit of Detection.
General Chemistry		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	U	Undetected at the Limit of Detection.

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-75056					
LCS 280-75056/5	Lab Control Sample	T	Water	8260B/DoD	
MB 280-75056/6	Method Blank	T	Water	8260B/DoD	
280-17248-1	B035M0416JA	T	Water	8260B/DoD	
280-17248-2EB	062111JE	T	Water	8260B/DoD	
280-17248-3	062111JF	T	Water	8260B/DoD	
280-17248-4TB	062111JR	T	Water	8260B/DoD	

Report Basis
T = Total

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-73229					
LCS 280-73229/34	Lab Control Sample	T	Water	SM5210B	
LCSD 280-73229/35	Lab Control Sample Duplicate	T	Water	SM5210B	
MB 280-73229/36	Method Blank	T	Water	SM5210B	
280-17248-2EB	062111JE	T	Water	SM5210B	
Analysis Batch:280-73424					
MB 280-73424/1	Method Blank	T	Water	SM 2120B	
280-17248-1	B035M0416JA	T	Water	SM 2120B	
280-17248-2EB	062111JE	T	Water	SM 2120B	
Analysis Batch:280-73686					
LCS 280-73686/4	Lab Control Sample	T	Water	9056A	
LCSD 280-73686/5	Lab Control Sample Duplicate	T	Water	9056A	
MB 280-73686/6	Method Blank	T	Water	9056A	
280-17248-1	B035M0416JA	T	Water	9056A	
280-17248-2EB	062111JE	T	Water	9056A	
280-17248-2DU	Duplicate	T	Water	9056A	
280-17248-2MS	Matrix Spike	T	Water	9056A	
280-17248-2MSD	Matrix Spike Duplicate	T	Water	9056A	
Analysis Batch:280-73687					
LCS 280-73687/4	Lab Control Sample	T	Water	9056A	
LCSD 280-73687/5	Lab Control Sample Duplicate	T	Water	9056A	
MB 280-73687/6	Method Blank	T	Water	9056A	
280-17248-1	B035M0416JA	T	Water	9056A	
280-17248-2EB	062111JE	T	Water	9056A	
280-17248-2DU	Duplicate	T	Water	9056A	
280-17248-2MS	Matrix Spike	T	Water	9056A	
280-17248-2MSD	Matrix Spike Duplicate	T	Water	9056A	
Analysis Batch:280-73734					
LCS 280-73734/3	Lab Control Sample	T	Water	410.4	
LCSD 280-73734/4	Lab Control Sample Duplicate	T	Water	410.4	
MB 280-73734/5	Method Blank	T	Water	410.4	
280-17248-2EB	062111JE	T	Water	410.4	
Analysis Batch:280-73950					
LCS 280-73950/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-73950/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-73950/1	Method Blank	T	Water	SM 2540C	
280-17248-1	B035M0416JA	T	Water	SM 2540C	

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-73955					
LCS 280-73955/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-73955/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-73955/1	Method Blank	T	Water	SM 2540C	
280-17248-2EB	062111JE	T	Water	SM 2540C	
Analysis Batch:280-74376					
LCS 280-74376/31	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-74376/32	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-74376/33	Method Blank	T	Water	SM 2320B	
280-17248-1	B035M0416JA	T	Water	SM 2320B	
280-17248-2EB	062111JE	T	Water	SM 2320B	
Analysis Batch:280-75698					
LCS 280-75698/3	Lab Control Sample	T	Water	9060A	
LCSD 280-75698/4	Lab Control Sample Duplicate	T	Water	9060A	
MB 280-75698/5	Method Blank	T	Water	9060A	
280-17248-1	B035M0416JA	T	Water	9060A	
280-17248-1MS	Matrix Spike	T	Water	9060A	
280-17248-1MSD	Matrix Spike Duplicate	T	Water	9060A	
280-17248-2EB	062111JE	T	Water	9060A	
Analysis Batch:280-76458					
LCS 280-76458/69	Lab Control Sample	T	Water	350.1	
LCSD 280-76458/70	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-76458/68	Method Blank	T	Water	350.1	
280-17248-2EB	062111JE	T	Water	350.1	
Analysis Batch:280-76596					
LCS 280-76596/1	Lab Control Sample	T	Water	SM 2340C	
LCSD 280-76596/2	Lab Control Sample Duplicate	T	Water	SM 2340C	
MB 280-76596/3	Method Blank	T	Water	SM 2340C	
280-17248-2EB	062111JE	T	Water	SM 2340C	
Prep Batch: 280-76660					
LCS 280-76660/1-A	Lab Control Sample	T	Water	351.2	
LCSD 280-76660/2-A	Lab Control Sample Duplicate	T	Water	351.2	
MB 280-76660/3-A	Method Blank	T	Water	351.2	
280-17248-2EB	062111JE	T	Water	351.2	
Analysis Batch:280-76964					
LCS 280-76660/1-A	Lab Control Sample	T	Water	351.2	280-76660
LCSD 280-76660/2-A	Lab Control Sample Duplicate	T	Water	351.2	280-76660
MB 280-76660/3-A	Method Blank	T	Water	351.2	280-76660
280-17248-2EB	062111JE	T	Water	351.2	280-76660

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Laboratory Chronicle

Lab ID: 280-17248-1 **Client ID:** B035M0416JA

Sample Date/Time: 06/21/2011 13:20 Received Date/Time: 06/22/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-17248-E-1		280-75056		07/02/2011 15:34	1	TAL DEN	GPM
A:8260B/DoD	280-17248-E-1		280-75056		07/02/2011 15:34	1	TAL DEN	GPM
A:9056A	280-17248-A-1		280-73686		06/22/2011 14:28	1	TAL DEN	EK
A:9056A	280-17248-A-1		280-73687		06/22/2011 14:28	1	TAL DEN	EK
A:9056A	280-17248-A-1		280-73687		06/22/2011 21:00	5	TAL DEN	EK
A:9060A	280-17248-B-1		280-75698		07/07/2011 21:46	1	TAL DEN	GEY
A:SM 2120B	280-17248-A-1		280-73424		06/22/2011 16:34	1	TAL DEN	DA
A:SM 2320B	280-17248-A-1		280-74376		06/28/2011 18:00	1	TAL DEN	AJA
A:SM 2540C	280-17248-A-1		280-73950		06/27/2011 08:16	1	TAL DEN	BJD

Lab ID: 280-17248-1 MS **Client ID:** B035M0416JA

Sample Date/Time: 06/21/2011 13:20 Received Date/Time: 06/22/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9060A	280-17248-B-1 MS		280-75698		07/07/2011 22:03	1	TAL DEN	GEY

Lab ID: 280-17248-1 MSD **Client ID:** B035M0416JA

Sample Date/Time: 06/21/2011 13:20 Received Date/Time: 06/22/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9060A	280-17248-B-1 MSD		280-75698		07/07/2011 22:22	1	TAL DEN	GEY

Lab ID: 280-17248-2 **Client ID:** 062111JE

Sample Date/Time: 06/21/2011 17:00 Received Date/Time: 06/22/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-17248-H-2		280-75056		07/02/2011 15:57	1	TAL DEN	GPM
A:8260B/DoD	280-17248-H-2		280-75056		07/02/2011 15:57	1	TAL DEN	GPM
A:350.1	280-17248-C-2		280-76458		07/13/2011 13:54	1	TAL DEN	SJS
P:351.2	280-17248-C-2-A		280-76964	280-76660	07/14/2011 16:45	1	TAL DEN	MW
A:351.2	280-17248-C-2-A		280-76964	280-76660	07/16/2011 19:48	1	TAL DEN	MW
A:410.4	280-17248-D-2		280-73734		06/24/2011 10:34	1	TAL DEN	JMT
A:9056A	280-17248-B-2		280-73686		06/22/2011 15:18	1	TAL DEN	EK
A:9056A	280-17248-B-2		280-73687		06/22/2011 15:18	1	TAL DEN	EK
A:9060A	280-17248-D-2		280-75698		07/07/2011 22:40	1	TAL DEN	GEY
A:SM 2120B	280-17248-B-2		280-73424		06/22/2011 16:34	1	TAL DEN	DA
A:SM 2320B	280-17248-B-2		280-74376		06/28/2011 18:06	1	TAL DEN	AJA
A:SM 2340C	280-17248-E-2		280-76596		07/14/2011 11:37	1	TAL DEN	AJA
A:SM 2540C	280-17248-B-2		280-73955		06/27/2011 08:29	1	TAL DEN	BJD
A:SM5210B	280-17248-A-2		280-73229		06/22/2011 05:22	1	TAL DEN	DA

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Laboratory Chronicle

Lab ID: 280-17248-2 MS **Client ID:** 062111JE

Sample Date/Time: 06/21/2011 17:00 Received Date/Time: 06/22/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9056A	280-17248-B-2 MS		280-73686		06/22/2011 15:52	1	TAL DEN	EK
A:9056A	280-17248-B-2 MS		280-73687		06/22/2011 15:52	1	TAL DEN	EK

Lab ID: 280-17248-2 MSD **Client ID:** 062111JE

Sample Date/Time: 06/21/2011 17:00 Received Date/Time: 06/22/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9056A	280-17248-B-2 MSD		280-73686		06/22/2011 16:08	1	TAL DEN	EK
A:9056A	280-17248-B-2 MSD		280-73687		06/22/2011 16:08	1	TAL DEN	EK

Lab ID: 280-17248-2 DU **Client ID:** 062111JE

Sample Date/Time: 06/21/2011 17:00 Received Date/Time: 06/22/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9056A	280-17248-B-2 DU		280-73686		06/22/2011 15:35	1	TAL DEN	EK
A:9056A	280-17248-B-2 DU		280-73687		06/22/2011 15:35	1	TAL DEN	EK

Lab ID: 280-17248-3 **Client ID:** 062111JF

Sample Date/Time: 06/21/2011 17:10 Received Date/Time: 06/22/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-17248-B-3		280-75056		07/02/2011 16:19	1	TAL DEN	GPM
A:8260B/DoD	280-17248-B-3		280-75056		07/02/2011 16:19	1	TAL DEN	GPM

Lab ID: 280-17248-4 **Client ID:** 062111JR

Sample Date/Time: 06/21/2011 10:20 Received Date/Time: 06/22/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-17248-B-4		280-75056		07/02/2011 16:42	1	TAL DEN	GPM
A:8260B/DoD	280-17248-B-4		280-75056		07/02/2011 16:42	1	TAL DEN	GPM

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Laboratory Chronicle

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-75056/6		280-75056		07/02/2011 09:20	1	TAL DEN	GPM
A:8260B/DoD	MB 280-75056/6		280-75056		07/02/2011 09:20	1	TAL DEN	GPM
A:350.1	MB 280-76458/68		280-76458		07/13/2011 13:30	1	TAL DEN	SJS
P:351.2	MB 280-76660/3-A		280-76964	280-76660	07/14/2011 16:45	1	TAL DEN	MW
A:351.2	MB 280-76660/3-A		280-76964	280-76660	07/16/2011 19:20	1	TAL DEN	MW
A:410.4	MB 280-73734/5		280-73734		06/24/2011 10:34	1	TAL DEN	JMT
A:9056A	MB 280-73686/6		280-73686		06/22/2011 11:07	1	TAL DEN	EK
A:9056A	MB 280-73687/6		280-73687		06/22/2011 11:07	1	TAL DEN	EK
A:9060A	MB 280-75698/5		280-75698		07/07/2011 16:52	1	TAL DEN	GEY
A:SM 2120B	MB 280-73424/1		280-73424		06/22/2011 16:34	1	TAL DEN	DA
A:SM 2320B	MB 280-74376/33		280-74376		06/28/2011 15:30	1	TAL DEN	AJA
A:SM 2340C	MB 280-76596/3		280-76596		07/14/2011 11:37	1	TAL DEN	AJA
A:SM 2540C	MB 280-73950/1		280-73950		06/27/2011 08:16	1	TAL DEN	BJD
A:SM 2540C	MB 280-73955/1		280-73955		06/27/2011 08:29	1	TAL DEN	BJD
A:SM5210B	MB 280-73229/36		280-73229		06/22/2011 05:22	1	TAL DEN	DA

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-75056/5		280-75056		07/02/2011 08:58	1	TAL DEN	GPM
A:8260B/DoD	LCS 280-75056/5		280-75056		07/02/2011 08:58	1	TAL DEN	GPM
A:350.1	LCS 280-76458/69		280-76458		07/13/2011 13:32	1	TAL DEN	SJS
P:351.2	LCS 280-76660/1-A		280-76964	280-76660	07/14/2011 16:45	1	TAL DEN	MW
A:351.2	LCS 280-76660/1-A		280-76964	280-76660	07/16/2011 19:18	1	TAL DEN	MW
A:410.4	LCS 280-73734/3		280-73734		06/24/2011 10:34	1	TAL DEN	JMT
A:9056A	LCS 280-73686/4		280-73686		06/22/2011 10:33	1	TAL DEN	EK
A:9056A	LCS 280-73687/4		280-73687		06/22/2011 10:33	1	TAL DEN	EK
A:9060A	LCS 280-75698/3		280-75698		07/07/2011 16:14	1	TAL DEN	GEY
A:SM 2320B	LCS 280-74376/31		280-74376		06/28/2011 15:13	1	TAL DEN	AJA
A:SM 2340C	LCS 280-76596/1		280-76596		07/14/2011 11:37	1	TAL DEN	AJA
A:SM 2540C	LCS 280-73950/2		280-73950		06/27/2011 08:16	1	TAL DEN	BJD
A:SM 2540C	LCS 280-73955/2		280-73955		06/27/2011 08:29	1	TAL DEN	BJD
A:SM5210B	LCS 280-73229/34		280-73229		06/22/2011 05:22	1	TAL DEN	DA

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Laboratory Chronicle

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	LCSD 280-76458/70		280-76458		07/13/2011 13:33	1	TAL DEN	SJS
P:351.2	LCSD 280-76660/2-A		280-76964	280-76660	07/14/2011 16:45	1	TAL DEN	MW
A:351.2	LCSD 280-76660/2-A		280-76964	280-76660	07/16/2011 19:19	1	TAL DEN	MW
A:410.4	LCSD 280-73734/4		280-73734		06/24/2011 10:34	1	TAL DEN	JMT
A:9056A	LCSD 280-73686/5		280-73686		06/22/2011 10:50	1	TAL DEN	EK
A:9056A	LCSD 280-73687/5		280-73687		06/22/2011 10:50	1	TAL DEN	EK
A:9060A	LCSD 280-75698/4		280-75698		07/07/2011 16:34	1	TAL DEN	GEY
A:SM 2320B	LCSD 280-74376/32		280-74376		06/28/2011 15:22	1	TAL DEN	AJA
A:SM 2340C	LCSD 280-76596/2		280-76596		07/14/2011 11:37	1	TAL DEN	AJA
A:SM 2540C	LCSD 280-73950/3		280-73950		06/27/2011 08:16	1	TAL DEN	BJD
A:SM 2540C	LCSD 280-73955/3		280-73955		06/27/2011 08:29	1	TAL DEN	BJD
A:SM5210B	LCSD 280-73229/35		280-73229		06/22/2011 05:22	1	TAL DEN	DA

Lab ID: MRL **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9056A	MRL 280-73686/3		280-73686		06/22/2011 10:16	1	TAL DEN	EK
A:9056A	MRL 280-73687/3		280-73687		06/22/2011 10:16	1	TAL DEN	EK

Lab References:

TAL DEN = TestAmerica Denver

Certification Summary

Client: FPM Engineering Group, PC
Project/Site: Griffiss AFB B35 LTM

TestAmerica Job ID: 280-17248-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B DOD

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
B035M0416JA	280-17248-1	98	93	95	88
062111JE	280-17248-2	95	88	93	87
062111JF	280-17248-3	101	97	101	93
062111JR	280-17248-4	97	91	97	91
	MB 280-75056/6	100	94	97	95
	LCS 280-75056/5	98	93	101	96

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	85-115
DCA = 1,2-Dichloroethane-d4 (Surr)	70-120
TOL = Toluene-d8 (Surr)	85-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Matrix: Water Level: Low Lab File ID: RR6929.D

Lab ID: LCS 280-75056/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.18	84	80-130	
1,1,1-Trichloroethane	5.00	4.59	92	65-130	
1,1,2,2-Tetrachloroethane	5.00	4.27	85	65-130	
1,1-Dichloroethane	5.00	4.53	91	70-135	
1,1-Dichloroethene	5.00	5.37	107	70-130	
1,1-Dichloropropene	5.00	4.85	97	75-130	
1,2,3-Trichlorobenzene	5.00	3.96	79	55-140	
1,2,3-Trichloropropane	5.00	4.22	84	75-125	
1,2,4-Trichlorobenzene	5.00	3.94	79	65-135	
1,2,4-Trimethylbenzene	5.00	4.25	85	75-130	
1,2-Dibromo-3-Chloropropane	5.00	4.00 J	80	50-130	
1,2-Dichlorobenzene	5.00	4.20	84	70-120	
1,2-Dichloroethane	5.00	4.39	88	70-130	
1,2-Dichloropropane	5.00	4.45	89	75-125	
1,3,5-Trimethylbenzene	5.00	4.45	89	75-130	
1,3-Dichlorobenzene	5.00	4.10	82	75-125	
1,3-Dichloropropane	5.00	4.41	88	75-125	
1,4-Dichlorobenzene	5.00	4.29	86	75-125	
2,2-Dichloropropane	5.00	4.73	95	70-135	
2-Butanone (MEK)	20.0	23.8	119	30-150	
2-Chlorotoluene	5.00	4.31	86	75-125	
2-Hexanone	20.0	19.0	95	55-130	
4-Chlorotoluene	5.00	4.28	86	75-130	
4-Isopropyltoluene	5.00	4.29	86	75-130	
4-Methyl-2-pentanone (MIBK)	20.0	20.0	100	60-135	
Acetone	20.0	19.9	99	40-140	
Benzene	5.00	4.46	89	80-120	
Bromobenzene	5.00	4.17	83	75-125	
Bromoform	5.00	4.32	86	70-130	
Bromomethane	5.00	5.16	103	30-145	
Carbon disulfide	5.00	3.62	72	35-160	
Carbon tetrachloride	5.00	4.84	97	65-140	
Chlorobenzene	5.00	4.25	85	80-120	
Chlorobromomethane	5.00	4.44	89	65-130	
Chlorodibromomethane	5.00	4.36	87	60-135	
Chloroethane	5.00	4.98	100	60-135	
Chloroform	5.00	4.38	88	65-135	
Chloromethane	5.00	4.85	97	40-125	
cis-1,2-Dichloroethene	5.00	4.54	91	70-125	
cis-1,3-Dichloropropene	5.00	4.36	87	70-130	
Dibromomethane	5.00	4.38	88	75-125	
Dichlorobromomethane	5.00	4.35	87	75-120	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Matrix: Water Level: Low Lab File ID: RR6929.D

Lab ID: LCS 280-75056/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	5.00	4.90	98	30-155	
Ethylbenzene	5.00	4.48	90	75-125	
Ethylene Dibromide	5.00	4.47	89	80-120	
Hexachlorobutadiene	5.00	4.20	84	50-140	
Isopropylbenzene	5.00	4.90	98	75-125	
Methyl tert-butyl ether	5.00	3.90 J	78	65-125	
Methylene Chloride	5.00	4.66 J	93	55-140	
m-Xylene & p-Xylene	10.0	9.00	90	75-130	
Naphthalene	5.00	3.84	77	55-140	
n-Butylbenzene	5.00	4.63	93	70-135	
N-Propylbenzene	5.00	4.43	89	70-130	
o-Xylene	5.00	4.37	87	80-120	
sec-Butylbenzene	5.00	4.48	90	70-125	
Styrene	5.00	4.39	88	65-135	
tert-Butylbenzene	5.00	4.47	89	70-130	
Tetrachloroethene	5.00	4.58	92	45-150	
Toluene	5.00	4.66	93	75-120	
trans-1,2-Dichloroethene	5.00	4.80	96	60-140	
trans-1,3-Dichloropropene	5.00	4.37	87	55-140	
Trichloroethene	5.00	4.80	96	70-125	
Trichlorofluoromethane	5.00	4.74	95	60-145	
Vinyl chloride	5.00	5.16	103	50-145	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Lab File ID: RR6930.D Lab Sample ID: MB 280-75056/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: MSV_R2 Date Analyzed: 07/02/2011 09:20

GC Column: DB-624 (60.25) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-75056/5	RR6929.D	07/02/2011 08:58
B035M0416JA	280-17248-1	RR6946.D	07/02/2011 15:34
062111JE	280-17248-2	RR6947.D	07/02/2011 15:57
062111JF	280-17248-3	RR6948.D	07/02/2011 16:19
062111JR	280-17248-4	RR6949.D	07/02/2011 16:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Lab File ID: RR6649.D BFB Injection Date: 06/27/2011

Instrument ID: MSV_R2 BFB Injection Time: 09:16

Analysis Batch No.: 74138

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.8	
75	30.0 - 60.0 % of mass 95	44.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	74.0	
175	5.0 - 9.0 % of mass 174	5.9	(7.9)1
176	95.0 - 101.0 % of mass 174	71.4	(96.5)1
177	5.0 - 9.0 % of mass 176	5.0	(7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-74138/2	RR6651.D	06/27/2011	09:48
	IC 280-74138/3	RR6652.D	06/27/2011	10:10
	IC 280-74138/4	RR6653.D	06/27/2011	10:33
	IC 280-74138/5	RR6654.D	06/27/2011	10:55
	IC 280-74138/6	RR6655.D	06/27/2011	11:17
	IC 280-74138/7	RR6656.D	06/27/2011	11:39
	IC 280-74138/8	RR6657.D	06/27/2011	12:01
	ICV 280-74138/9	RR6659.D	06/27/2011	12:46
	ICV 280-74138/10	RR6660.D	06/27/2011	13:08
	ICV 280-74138/20	RR6680.D	06/27/2011	20:47

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Lab File ID: RR6735.D BFB Injection Date: 06/29/2011

Instrument ID: MSV_R2 BFB Injection Time: 06:44

Analysis Batch No.: 74454

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.2	
75	30.0 - 60.0 % of mass 95	44.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.2	
175	5.0 - 9.0 % of mass 174	5.6	(8.4)1
176	95.0 - 101.0 % of mass 174	66.6	(99.1)1
177	5.0 - 9.0 % of mass 176	4.5	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-74454/3	RR6737.D	06/29/2011	07:18
	IC 280-74454/4	RR6738.D	06/29/2011	07:40
	IC 280-74454/5	RR6739.D	06/29/2011	08:02
	IC 280-74454/6	RR6740.D	06/29/2011	08:25
	ICIS 280-74454/7	RR6741.D	06/29/2011	08:47
	IC 280-74454/8	RR6742.D	06/29/2011	09:09
	IC 280-74454/9	RR6743.D	06/29/2011	09:32
	ICV 280-74454/10	RR6744.D	06/29/2011	09:54

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Lab File ID: RR6925.D BFB Injection Date: 07/02/2011

Instrument ID: MSV_R2 BFB Injection Time: 07:41

Analysis Batch No.: 75056

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	43.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	69.4	
175	5.0 - 9.0 % of mass 174	5.2	(7.5)1
176	95.0 - 101.0 % of mass 174	66.0	(95.0)1
177	5.0 - 9.0 % of mass 176	4.3	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-75056/2	RR6926.D	07/02/2011	07:51
	CCV 280-75056/3	RR6927.D	07/02/2011	08:13
	CCV 280-75056/4	RR6928.D	07/02/2011	08:35
	LCS 280-75056/5	RR6929.D	07/02/2011	08:58
	MB 280-75056/6	RR6930.D	07/02/2011	09:20
B035M0416JA	280-17248-1	RR6946.D	07/02/2011	15:34
062111JE	280-17248-2	RR6947.D	07/02/2011	15:57
062111JF	280-17248-3	RR6948.D	07/02/2011	16:19
062111JR	280-17248-4	RR6949.D	07/02/2011	16:42

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Sample No.: ICIS 280-74454/7 Date Analyzed: 06/29/2011 08:47

Instrument ID: MSV_R2 GC Column: DB-624 (60.25) ID: 0.25(mm)

Lab File ID (Standard): RR6741.D Heated Purge: (Y/N) N

Calibration ID: 6328

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1048908	8.75	200183	11.62	212356	14.19
UPPER LIMIT		2097816	9.25	400366	12.12	424712	14.69
LOWER LIMIT		524454	8.25	100092	11.12	106178	13.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-74138/9		1190278	8.75	225347	11.61	231911	14.19
ICV 280-74138/10		1218126	8.74	233280	11.62	237591	14.18
ICV 280-74138/20		1156904	8.74	222660	11.61	251319	14.18
ICV 280-74454/10		1058139	8.75	205943	11.62	229623	14.19
CCV 280-75056/2		1039629	8.74	203571	11.61	211730	14.18
CCV 280-75056/3		1039364	8.73	199247	11.61	216358	14.18
CCV 280-75056/4		1098965	8.74	208393	11.61	214736	14.18
LCS 280-75056/5		1114922	8.74	216814	11.61	226721	14.18
MB 280-75056/6		1113358	8.74	219551	11.61	230981	14.18
280-17248-1	B035M0416JA	1055152	8.75	212197	11.62	245143	14.19
280-17248-2	062111JE	1142235	8.75	228041	11.61	259178	14.19
280-17248-3	062111JF	1071942	8.75	209696	11.62	243985	14.19
280-17248-4	062111JR	1177804	8.75	231710	11.62	264330	14.19

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B/DOD

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-17248-1

SDG No.:

Client Sample ID: B035M0416JA | Lab Sample ID: 280-17248-1

Matrix: Water | Lab File ID: RR6946.D

Analysis Method: 8260B/DoD | Date Collected: 06/21/2011 13:20

Sample wt/vol: 20(mL) | Date Analyzed: 07/02/2011 15:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 75056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-triflu oroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
123-91-1	1,4-Dioxane	80	U	220	80	71
544-10-5	1-Chlorohexane	0.20	U	1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	3.2	U	6.0	3.2	1.8
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40	0.17
591-78-6	2-Hexanone	3.2	U	5.0	3.2	1.4
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	1.0
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.20	U	1.0	0.20	0.16
108-86-1	Bromobenzene	0.20	U	1.0	0.20	0.17
75-25-2	Bromoform	0.40	U	1.0	0.40	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.40	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-17248-1

SDG No.:

Client Sample ID: B035M0416JA | Lab Sample ID: 280-17248-1

Matrix: Water | Lab File ID: RR6946.D

Analysis Method: 8260B/DoD | Date Collected: 06/21/2011 13:20

Sample wt/vol: 20(mL) | Date Analyzed: 07/02/2011 15:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 75056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.20	U	1.0	0.20	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.20	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.20	U	1.0	0.20	0.16
74-87-3	Chloromethane	1.6	U	2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	15		1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	0.40	U	1.0	0.40	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.20	0.16
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.40	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	0.40	U	5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.80	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.40	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.20	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.40	0.19
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.40	0.17
100-42-5	Styrene	0.40	U	1.0	0.40	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.40	0.16
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.52	J	1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.38	J	1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	4.3		1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Client Sample ID: B035M0416JA Lab Sample ID: 280-17248-1

Matrix: Water Lab File ID: RR6946.D

Analysis Method: 8260B/DoD Date Collected: 06/21/2011 13:20

Sample wt/vol: 20(mL) Date Analyzed: 07/02/2011 15:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 75056 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-120
460-00-4	4-Bromofluorobenzene (Surr)	88		75-120
1868-53-7	Dibromofluoromethane (Surr)	98		85-115
2037-26-5	Toluene-d8 (Surr)	95		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\RR6946.D
Lab Smp Id: 280-17248-E-1 Client Smp ID: B035M0416JA
Inj Date : 02-JUL-2011 15:34
Operator : MEIERG Inst ID: R2.i
Smp Info : 280-17248-e-1,,PH<2
Misc Info : 280-17248-E-1
Comment :
Method : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\8260B-H2O.m
Meth Date : 02-Jul-2011 09:02 meierg Quant Type: ISTD
Cal Date : 29-JUN-2011 09:32 Cal File: RR6743.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
*	59 Fluorobenzene	96	8.746	8.737	(1.000)	1055152	12.5000	
*	85 Chlorobenzene-d5	119	11.619	11.610	(1.000)	212197	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	14.186	14.187	(1.000)	245143	12.5000	
$	49 Dibromofluoromethane (Surr)	111	8.146	8.147	(0.931)	282180	10.3352	10.3352
$	55 1,2-Dichloroethane-d4	65	8.471	8.482	(0.969)	176266	9.78080	9.78080
$	73 Toluene-d8	98	10.133	10.134	(0.872)	1016296	9.95175	9.95175
$	96 4-Bromofluorobenzene (Surr)	95	12.888	12.889	(0.908)	303096	9.27946	9.27946
M	9 1,2-Dichloroethene (total)	96				416198	15.4187	15.4187
M	10 Xylene (total)	106	Compound Not Detected.					
	1 dichlorodifluoromethane	85	Compound Not Detected.					
	2 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	3 Chloromethane	50	Compound Not Detected.					
	4 Vinyl Chloride	62	5.037	5.039	(0.576)	117801	4.33091	4.33091
	5 Ethylene Oxide	43	Compound Not Detected.					
	6 Bromomethane	94	Compound Not Detected.					
	7 Chloroethane	64	Compound Not Detected.					
	8 Dichlorofluoromethane	67	Compound Not Detected.					
	11 Trichlorofluoromethane	101	Compound Not Detected.					
	12 Ethanol	45	Compound Not Detected.					
	13 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
	15 Ethyl Ether	59	Compound Not Detected.					
	16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
18 Acrolein	56	Compound Not Detected.					
19 Acetone	43	Compound Not Detected.					
20 Trichlorotrifluoroethane	151	Compound Not Detected.					
14 2-propanol	45	Compound Not Detected.					
21 1,1-Dichloroethene	96	Compound Not Detected.					
22 Iodomethane	142	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
24 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	Compound Not Detected.					
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	6.936	6.927	(0.793)	14808	0.52397	0.523974
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
134 2-Butanol	45	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	7.772	7.773	(0.889)	401390	14.8947	14.8947
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
56 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	Compound Not Detected.					
57 TAME	73	Compound Not Detected.					
60 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	95	9.061	9.062	(1.036)	10470	0.38213	0.382131(a)
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
65 1,2-Dichloropropane	63	Compound Not Detected.					
64 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
70 2-nitropropane	41	Compound Not Detected.					
69 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	Compound Not Detected.					
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
75	Ethyl methacrylate	69	Compound Not Detected.					
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
87	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
88	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
90	o-Xylene	106	Compound Not Detected.					
91	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
100	Bromobenzene	156	Compound Not Detected.					
101	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	Compound Not Detected.					
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
111	1,4-dichlorobenzene	146	Compound Not Detected.					
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
117	Hexachlorobutadiene	225	Compound Not Detected.					
119	Naphthalene	128	Compound Not Detected.					
120	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

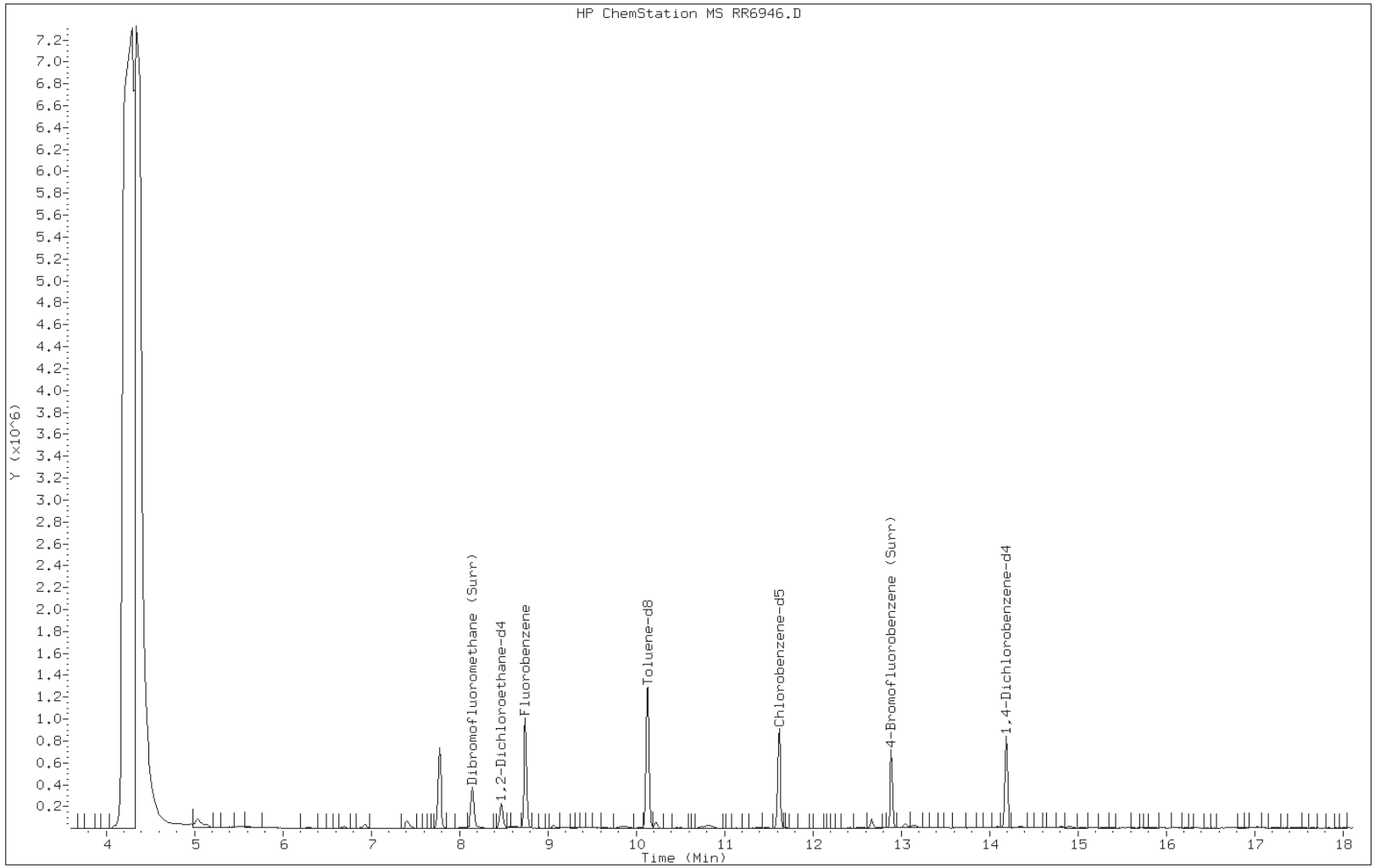
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: RR6946.D

Date: 02-JUL-2011 15:34

Client ID: B035M0416JA Instrument: R2.i

Sample Info: 280-17248-e-1,,PH<2 Operator: MEIERG



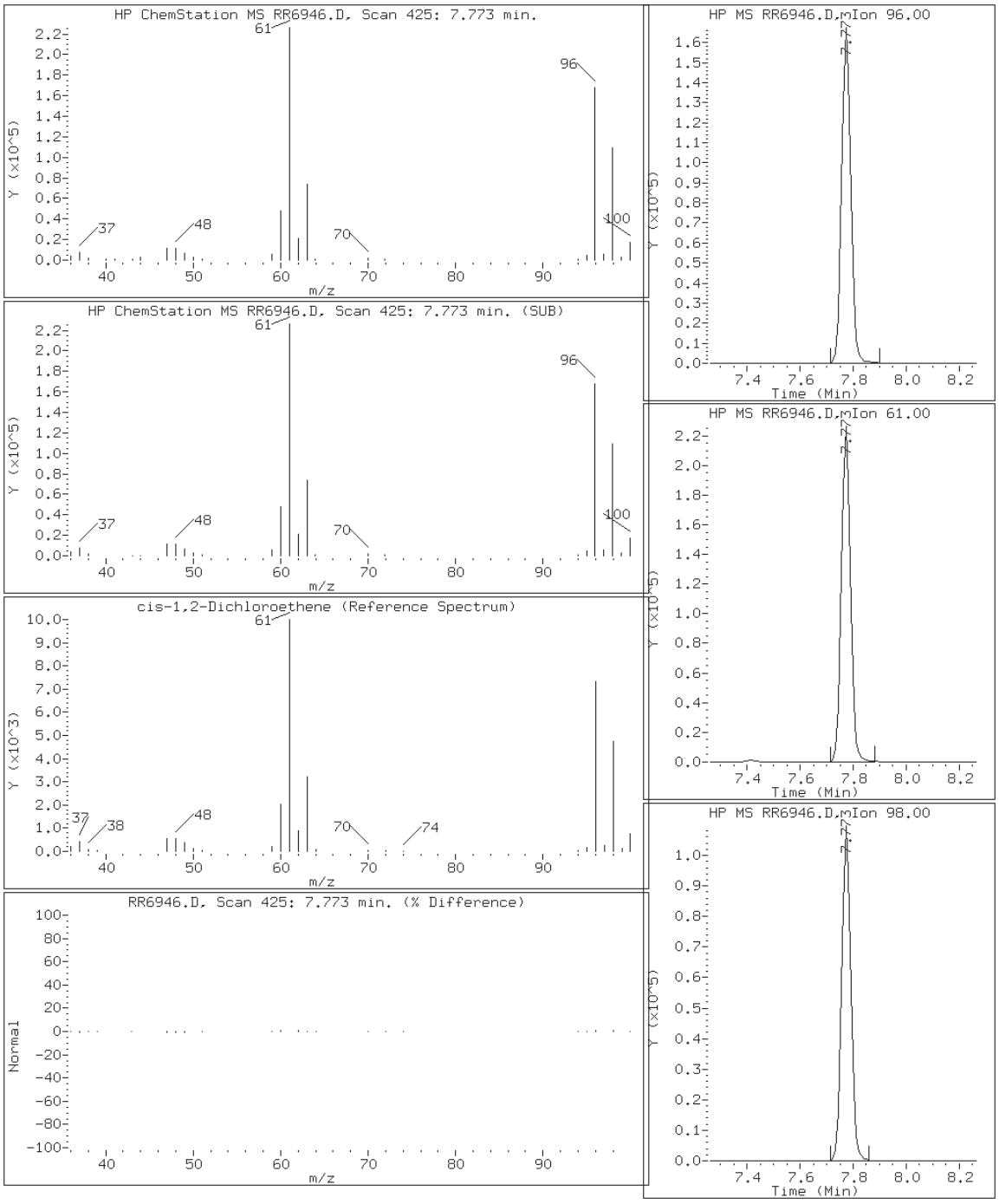
Data File: RR6946.D

Date: 02-JUL-2011 15:34

Client ID: B035M0416JA Instrument: R2.i

Sample Info: 280-17248-e-1,,PH<2 Operator: MEIERG

43 cis-1,2-Dichloroethene



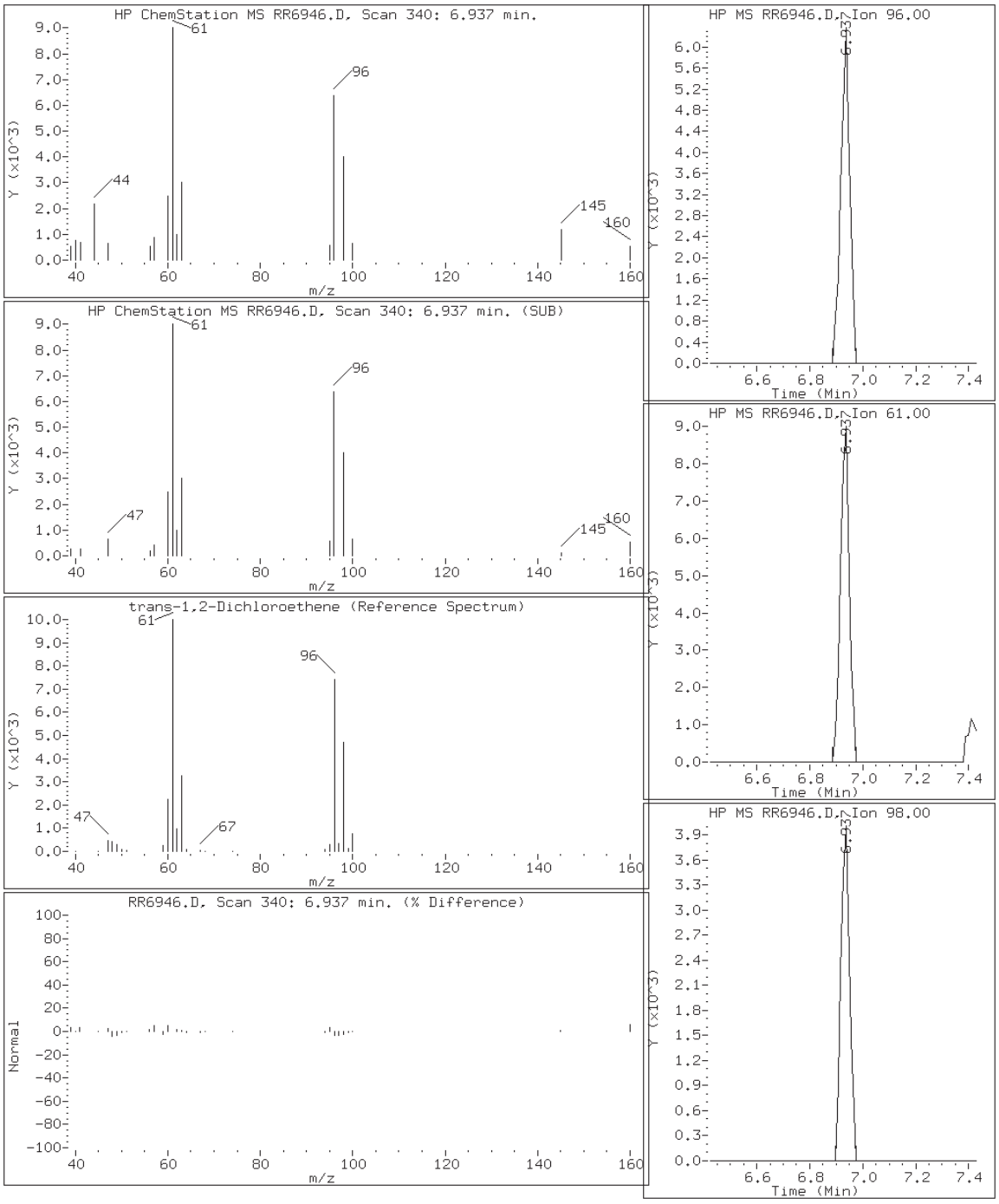
Data File: RR6946.D

Date: 02-JUL-2011 15:34

Client ID: B035M0416JA Instrument: R2.i

Sample Info: 280-17248-e-1,,PH<2 Operator: MEIERG

33 trans-1,2-Dichloroethene



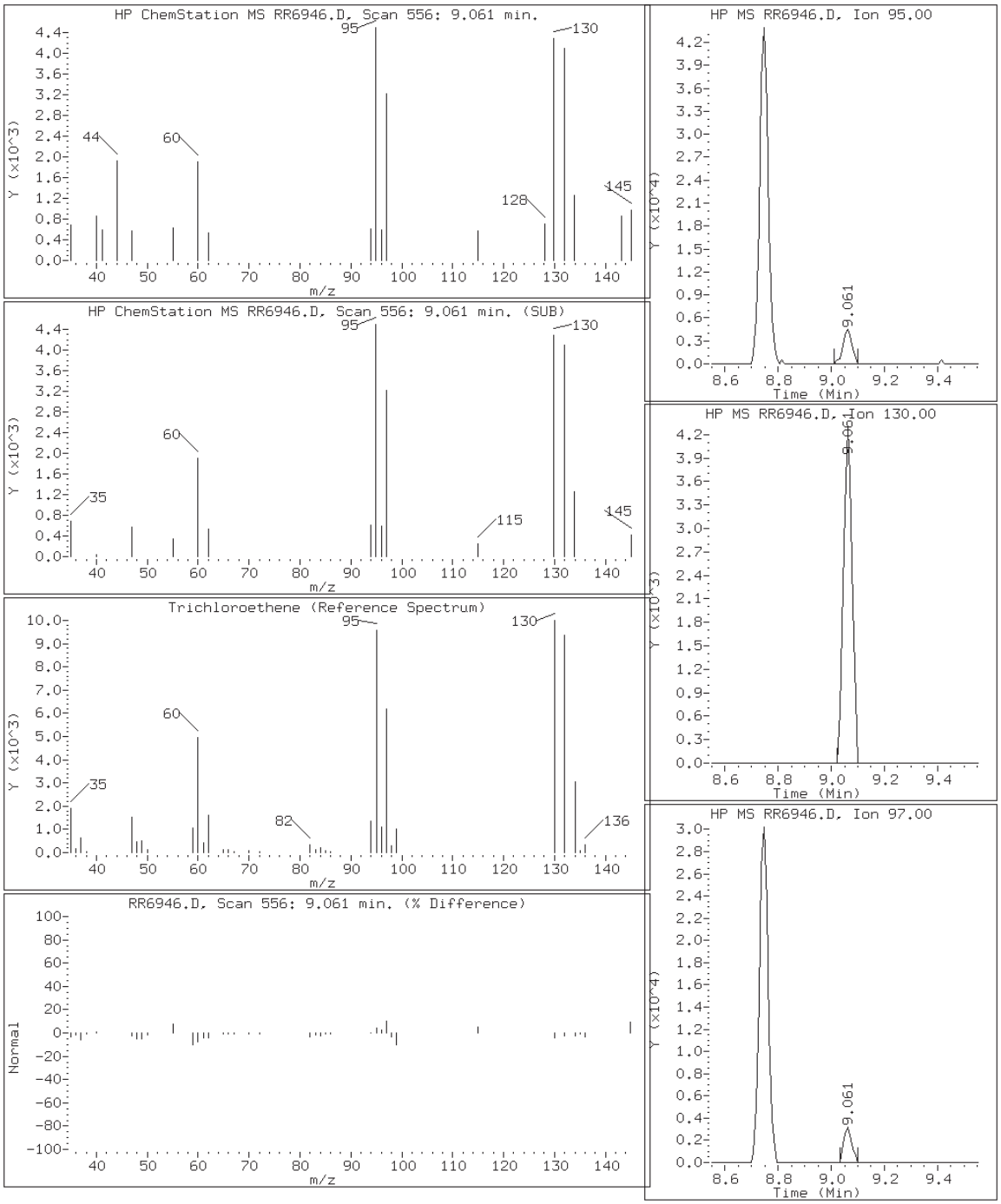
Data File: RR6946.D

Date: 02-JUL-2011 15:34

Client ID: B035M0416JA Instrument: R2.i

Sample Info: 280-17248-e-1,,PH<2 Operator: MEIERG

61 Trichloroethene



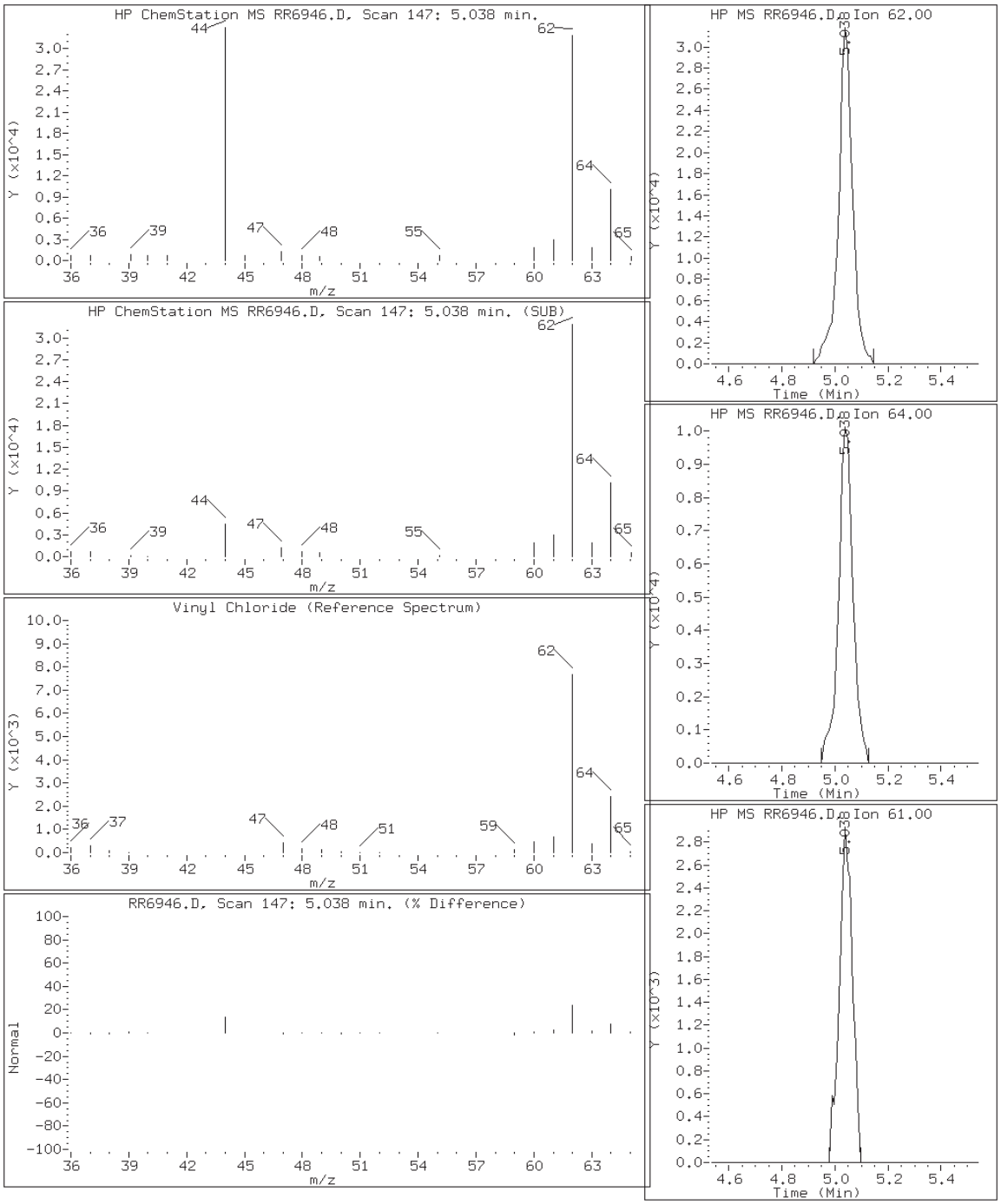
Data File: RR6946.D

Date: 02-JUL-2011 15:34

Client ID: B035M0416JA Instrument: R2.i

Sample Info: 280-17248-e-1,,PH<2 Operator: MEIERG

4 Vinyl Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-17248-1

SDG No.:

Client Sample ID: 062111JE | Lab Sample ID: 280-17248-2

Matrix: Water | Lab File ID: RR6947.D

Analysis Method: 8260B/DoD | Date Collected: 06/21/2011 17:00

Sample wt/vol: 20(mL) | Date Analyzed: 07/02/2011 15:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 75056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-triflu oroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
123-91-1	1,4-Dioxane	80	U	220	80	71
544-10-5	1-Chlorohexane	0.20	U	1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	3.2	U	6.0	3.2	1.8
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40	0.17
591-78-6	2-Hexanone	3.2	U	5.0	3.2	1.4
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	1.0
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.20	U	1.0	0.20	0.16
108-86-1	Bromobenzene	0.20	U	1.0	0.20	0.17
75-25-2	Bromoform	0.40	U	1.0	0.40	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.40	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-17248-1

SDG No.:

Client Sample ID: 062111JE | Lab Sample ID: 280-17248-2

Matrix: Water | Lab File ID: RR6947.D

Analysis Method: 8260B/DoD | Date Collected: 06/21/2011 17:00

Sample wt/vol: 20(mL) | Date Analyzed: 07/02/2011 15:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 75056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.20	U	1.0	0.20	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.20	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.20	U	1.0	0.20	0.16
74-87-3	Chloromethane	1.6	U	2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	0.40	U	1.0	0.40	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.20	0.16
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.40	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	0.40	U	5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.80	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.40	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.20	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.40	0.19
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.40	0.17
100-42-5	Styrene	0.40	U	1.0	0.40	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.40	0.16
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.20	U	1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Client Sample ID: 062111JE Lab Sample ID: 280-17248-2

Matrix: Water Lab File ID: RR6947.D

Analysis Method: 8260B/DoD Date Collected: 06/21/2011 17:00

Sample wt/vol: 20(mL) Date Analyzed: 07/02/2011 15:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 75056 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		70-120
460-00-4	4-Bromofluorobenzene (Surr)	87		75-120
1868-53-7	Dibromofluoromethane (Surr)	95		85-115
2037-26-5	Toluene-d8 (Surr)	93		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\RR6947.D
Lab Smp Id: 280-17248-H-2 Client Smp ID: 062111JE
Inj Date : 02-JUL-2011 15:57
Operator : MEIERG Inst ID: R2.i
Smp Info : 280-17248-h-2,,PH<2
Misc Info : 280-17248-H-2
Comment :
Method : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\8260B-H2O.m
Meth Date : 02-Jul-2011 09:02 meierg Quant Type: ISTD
Cal Date : 29-JUN-2011 09:32 Cal File: RR6743.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	59 Fluorobenzene	96	8.750	8.737	(1.000)	1142235	12.5000	
*	85 Chlorobenzene-d5	119	11.613	11.610	(1.000)	228041	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	14.190	14.187	(1.000)	259178	12.5000	
$	49 Dibromofluoromethane (Surr)	111	8.150	8.147	(0.931)	294361	9.95935	9.95935
$	55 1,2-Dichloroethane-d4	65	8.475	8.482	(0.969)	181263	9.29126	9.29126
$	73 Toluene-d8	98	10.127	10.134	(0.872)	1069337	9.74361	9.74361
$	96 4-Bromofluorobenzene (Surr)	95	12.892	12.889	(0.908)	316575	9.16728	9.16728
M	9 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	10 Xylene (total)	106	Compound Not Detected.					
	1 dichlorodifluoromethane	85	Compound Not Detected.					
	2 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	3 Chloromethane	50	Compound Not Detected.					
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Ethylene Oxide	43	Compound Not Detected.					
	6 Bromomethane	94	Compound Not Detected.					
	7 Chloroethane	64	Compound Not Detected.					
	8 Dichlorofluoromethane	67	Compound Not Detected.					
	11 Trichlorofluoromethane	101	Compound Not Detected.					
	12 Ethanol	45	Compound Not Detected.					
	13 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
	15 Ethyl Ether	59	Compound Not Detected.					
	16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
18	Acrolein	56	Compound Not Detected.					
19	Acetone	43	Compound Not Detected.					
20	Trichlorotrifluoroethane	151	Compound Not Detected.					
14	2-propanol	45	Compound Not Detected.					
21	1,1-Dichloroethene	96	Compound Not Detected.					
22	Iodomethane	142	Compound Not Detected.					
23	Acetonitrile	41	Compound Not Detected.					
24	Methyl Acetate	43	Compound Not Detected.					
28	Carbon Disulfide	76	Compound Not Detected.					
27	Allyl Chloride	41	Compound Not Detected.					
29	tert-Butyl alcohol	59	Compound Not Detected.					
30	Methylene Chloride	84	Compound Not Detected.					
31	Acrylonitrile	53	Compound Not Detected.					
32	Methyl t-butyl ether	73	Compound Not Detected.					
33	trans-1,2-Dichloroethene	96	Compound Not Detected.					
34	Hexane	57	Compound Not Detected.					
35	Vinyl acetate	43	Compound Not Detected.					
36	Isopropyl ether	87	Compound Not Detected.					
37	1,1-Dichloroethane	63	Compound Not Detected.					
38	Chloroprene	53	Compound Not Detected.					
39	ETBE	59	Compound Not Detected.					
41	2-Butanone	43	Compound Not Detected.					
134	2-Butanol	45	Compound Not Detected.					
40	Ethyl Acetate	43	Compound Not Detected.					
43	cis-1,2-Dichloroethene	96	Compound Not Detected.					
42	Propionitrile	54	Compound Not Detected.					
44	2,2-Dichloropropane	77	Compound Not Detected.					
45	Methacrylonitrile	41	Compound Not Detected.					
46	Bromochloromethane	128	Compound Not Detected.					
47	Chloroform	83	Compound Not Detected.					
48	Tetrahydrofuran	42	Compound Not Detected.					
51	1,1,1-Trichloroethane	97	Compound Not Detected.					
50	Isobutanol	41	Compound Not Detected.					
52	Cyclohexane	56	Compound Not Detected.					
53	1,1-Dichloropropene	75	Compound Not Detected.					
54	Carbon Tetrachloride	117	Compound Not Detected.					
56	1,2-Dichloroethane	62	Compound Not Detected.					
58	Benzene	78	Compound Not Detected.					
57	TAME	73	Compound Not Detected.					
60	n-Butanol	56	Compound Not Detected.					
61	Trichloroethene	95	Compound Not Detected.					
62	2-Pentanone	43	Compound Not Detected.					
63	Methyl Methacrylate	100	Compound Not Detected.					
65	1,2-Dichloropropane	63	Compound Not Detected.					
64	Methyl Cyclohexane	55	Compound Not Detected.					
66	1,4-Dioxane	88	Compound Not Detected.					
67	Dibromomethane	93	Compound Not Detected.					
68	Bromodichloromethane	83	Compound Not Detected.					
70	2-nitropropane	41	Compound Not Detected.					
69	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71	cis-1,3-Dichloropropene	75	Compound Not Detected.					
72	4-Methyl-2-pentanone	43	Compound Not Detected.					
74	Toluene	91	Compound Not Detected.					
76	trans-1,3-Dichloropropene	75	Compound Not Detected.					

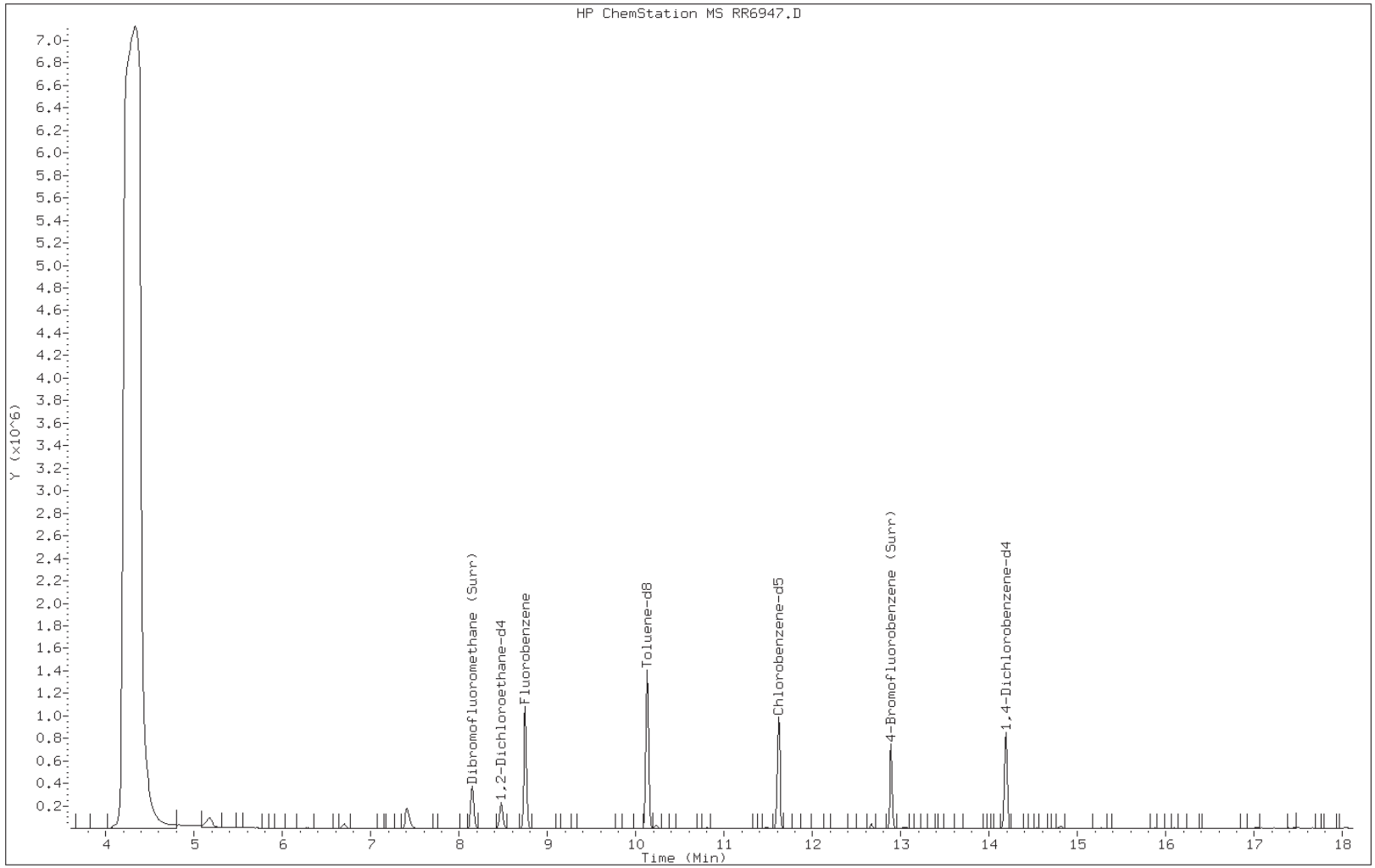
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
75	Ethyl methacrylate	69	Compound Not Detected.					
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
87	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
88	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
90	o-Xylene	106	Compound Not Detected.					
91	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
100	Bromobenzene	156	Compound Not Detected.					
101	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	Compound Not Detected.					
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
111	1,4-dichlorobenzene	146	Compound Not Detected.					
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
117	Hexachlorobutadiene	225	Compound Not Detected.					
119	Naphthalene	128	Compound Not Detected.					
120	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: RR6947.D

Date: 02-JUL-2011 15:57

Client ID: 062111JE Instrument: R2.i

Sample Info: 280-17248-h-2,,PH<2 Operator: MEIERG



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-17248-1

SDG No.:

Client Sample ID: 062111JF | Lab Sample ID: 280-17248-3

Matrix: Water | Lab File ID: RR6948.D

Analysis Method: 8260B/DoD | Date Collected: 06/21/2011 17:10

Sample wt/vol: 20(mL) | Date Analyzed: 07/02/2011 16:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 75056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-triflu oroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
123-91-1	1,4-Dioxane	80	U	220	80	71
544-10-5	1-Chlorohexane	0.20	U	1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	3.2	U	6.0	3.2	1.8
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40	0.17
591-78-6	2-Hexanone	3.2	U	5.0	3.2	1.4
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	1.0
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.20	U	1.0	0.20	0.16
108-86-1	Bromobenzene	0.20	U	1.0	0.20	0.17
75-25-2	Bromoform	0.40	U	1.0	0.40	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.40	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-17248-1

SDG No.:

Client Sample ID: 062111JF | Lab Sample ID: 280-17248-3

Matrix: Water | Lab File ID: RR6948.D

Analysis Method: 8260B/DoD | Date Collected: 06/21/2011 17:10

Sample wt/vol: 20(mL) | Date Analyzed: 07/02/2011 16:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 75056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.20	U	1.0	0.20	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.20	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.20	U	1.0	0.20	0.16
74-87-3	Chloromethane	1.6	U	2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	0.40	U	1.0	0.40	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.20	0.16
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.40	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	0.40	U	5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.80	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.40	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.20	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.40	0.19
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.40	0.17
100-42-5	Styrene	0.40	U	1.0	0.40	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.40	0.16
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.20	U	1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Client Sample ID: 062111JF Lab Sample ID: 280-17248-3

Matrix: Water Lab File ID: RR6948.D

Analysis Method: 8260B/DoD Date Collected: 06/21/2011 17:10

Sample wt/vol: 20(mL) Date Analyzed: 07/02/2011 16:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 75056 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-120
460-00-4	4-Bromofluorobenzene (Surr)	93		75-120
1868-53-7	Dibromofluoromethane (Surr)	101		85-115
2037-26-5	Toluene-d8 (Surr)	101		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\RR6948.D
Lab Smp Id: 280-17248-B-3 Client Smp ID: 062111JF
Inj Date : 02-JUL-2011 16:19
Operator : MEIERG Inst ID: R2.i
Smp Info : 280-17248-b-3,,PH<2
Misc Info : 280-17248-B-3
Comment :
Method : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\8260B-H2O.m
Meth Date : 02-Jul-2011 09:02 meierg Quant Type: ISTD
Cal Date : 29-JUN-2011 09:32 Cal File: RR6743.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	59 Fluorobenzene	96	8.747	8.737	(1.000)	1071942	12.5000	
*	85 Chlorobenzene-d5	119	11.619	11.610	(1.000)	209696	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	14.187	14.187	(1.000)	243985	12.5000	
$	49 Dibromofluoromethane (Surr)	111	8.147	8.147	(0.931)	295346	10.6480	10.6480
$	55 1,2-Dichloroethane-d4	65	8.471	8.482	(0.969)	185659	10.1406	10.1406
$	73 Toluene-d8	98	10.134	10.134	(0.872)	1073591	10.6382	10.6382
$	96 4-Bromofluorobenzene (Surr)	95	12.888	12.889	(0.908)	318506	9.79753	9.79753
M	9 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	10 Xylene (total)	106	Compound Not Detected.					
	1 dichlorodifluoromethane	85	Compound Not Detected.					
	2 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	3 Chloromethane	50	Compound Not Detected.					
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Ethylene Oxide	43	Compound Not Detected.					
	6 Bromomethane	94	Compound Not Detected.					
	7 Chloroethane	64	Compound Not Detected.					
	8 Dichlorofluoromethane	67	Compound Not Detected.					
	11 Trichlorofluoromethane	101	Compound Not Detected.					
	12 Ethanol	45	Compound Not Detected.					
	13 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
	15 Ethyl Ether	59	Compound Not Detected.					
	16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
18	Acrolein	56	Compound Not Detected.					
19	Acetone	43	Compound Not Detected.					
20	Trichlorotrifluoroethane	151	Compound Not Detected.					
14	2-propanol	45	Compound Not Detected.					
21	1,1-Dichloroethene	96	Compound Not Detected.					
22	Iodomethane	142	Compound Not Detected.					
23	Acetonitrile	41	Compound Not Detected.					
24	Methyl Acetate	43	Compound Not Detected.					
28	Carbon Disulfide	76	Compound Not Detected.					
27	Allyl Chloride	41	Compound Not Detected.					
29	tert-Butyl alcohol	59	Compound Not Detected.					
30	Methylene Chloride	84	Compound Not Detected.					
31	Acrylonitrile	53	Compound Not Detected.					
32	Methyl t-butyl ether	73	Compound Not Detected.					
33	trans-1,2-Dichloroethene	96	Compound Not Detected.					
34	Hexane	57	Compound Not Detected.					
35	Vinyl acetate	43	Compound Not Detected.					
36	Isopropyl ether	87	Compound Not Detected.					
37	1,1-Dichloroethane	63	Compound Not Detected.					
38	Chloroprene	53	Compound Not Detected.					
39	ETBE	59	Compound Not Detected.					
41	2-Butanone	43	Compound Not Detected.					
134	2-Butanol	45	Compound Not Detected.					
40	Ethyl Acetate	43	Compound Not Detected.					
43	cis-1,2-Dichloroethene	96	Compound Not Detected.					
42	Propionitrile	54	Compound Not Detected.					
44	2,2-Dichloropropane	77	Compound Not Detected.					
45	Methacrylonitrile	41	Compound Not Detected.					
46	Bromochloromethane	128	Compound Not Detected.					
47	Chloroform	83	Compound Not Detected.					
48	Tetrahydrofuran	42	Compound Not Detected.					
51	1,1,1-Trichloroethane	97	Compound Not Detected.					
50	Isobutanol	41	Compound Not Detected.					
52	Cyclohexane	56	Compound Not Detected.					
53	1,1-Dichloropropene	75	Compound Not Detected.					
54	Carbon Tetrachloride	117	Compound Not Detected.					
56	1,2-Dichloroethane	62	Compound Not Detected.					
58	Benzene	78	Compound Not Detected.					
57	TAME	73	Compound Not Detected.					
60	n-Butanol	56	Compound Not Detected.					
61	Trichloroethene	95	Compound Not Detected.					
62	2-Pentanone	43	Compound Not Detected.					
63	Methyl Methacrylate	100	Compound Not Detected.					
65	1,2-Dichloropropane	63	Compound Not Detected.					
64	Methyl Cyclohexane	55	Compound Not Detected.					
66	1,4-Dioxane	88	Compound Not Detected.					
67	Dibromomethane	93	Compound Not Detected.					
68	Bromodichloromethane	83	Compound Not Detected.					
70	2-nitropropane	41	Compound Not Detected.					
69	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71	cis-1,3-Dichloropropene	75	Compound Not Detected.					
72	4-Methyl-2-pentanone	43	Compound Not Detected.					
74	Toluene	91	Compound Not Detected.					
76	trans-1,3-Dichloropropene	75	Compound Not Detected.					

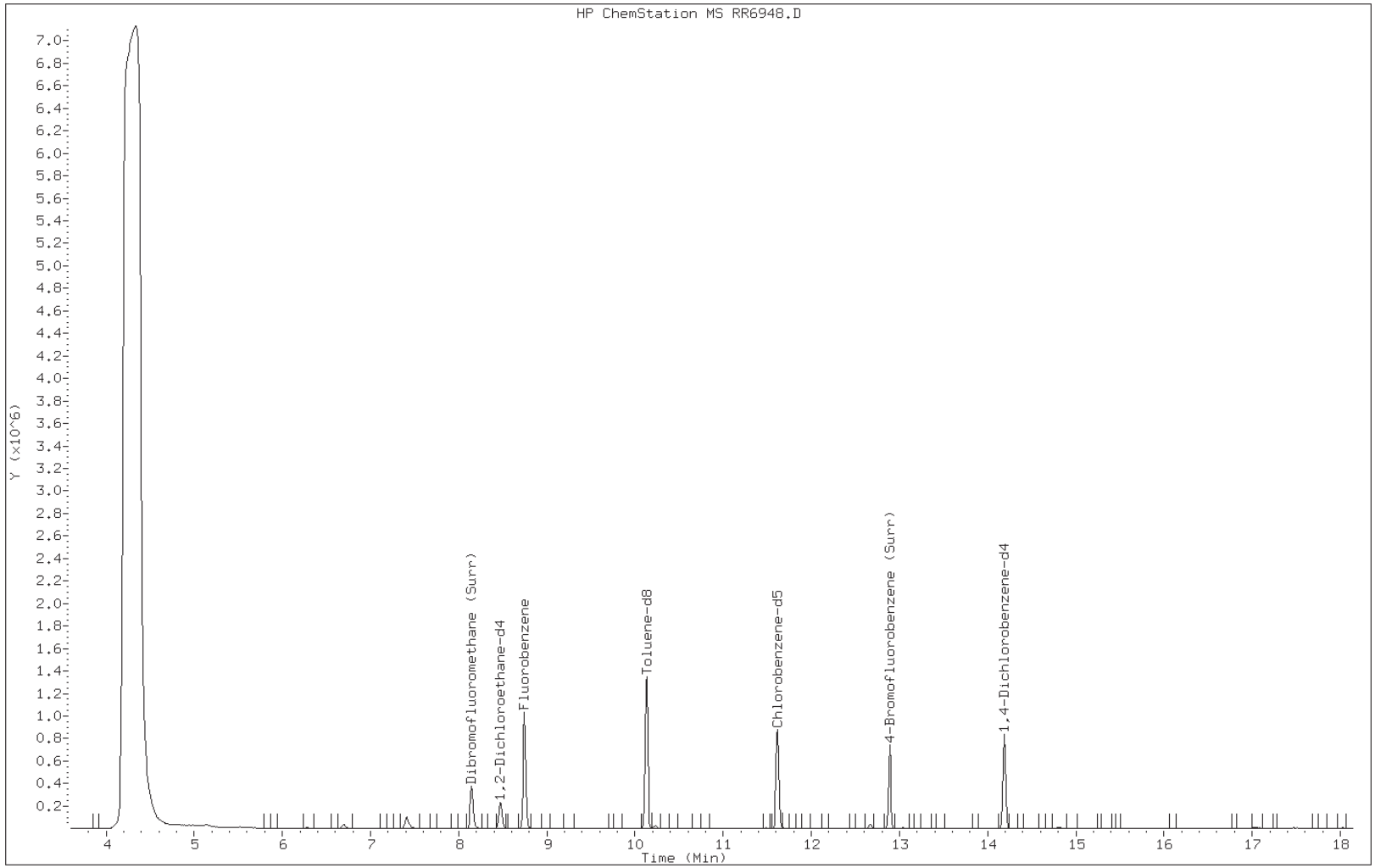
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
75	Ethyl methacrylate	69	Compound Not Detected.					
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
87	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
88	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
90	o-Xylene	106	Compound Not Detected.					
91	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
100	Bromobenzene	156	Compound Not Detected.					
101	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	Compound Not Detected.					
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
111	1,4-dichlorobenzene	146	Compound Not Detected.					
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
117	Hexachlorobutadiene	225	Compound Not Detected.					
119	Naphthalene	128	Compound Not Detected.					
120	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: RR6948.D

Date: 02-JUL-2011 16:19

Client ID: 062111JF Instrument: R2.i

Sample Info: 280-17248-b-3,,PH<2 Operator: MEIERG



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-17248-1

SDG No.:

Client Sample ID: 062111JR | Lab Sample ID: 280-17248-4

Matrix: Water | Lab File ID: RR6949.D

Analysis Method: 8260B/DoD | Date Collected: 06/21/2011 10:20

Sample wt/vol: 20(mL) | Date Analyzed: 07/02/2011 16:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 75056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
123-91-1	1,4-Dioxane	80	U	220	80	71
544-10-5	1-Chlorohexane	0.20	U	1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	3.2	U	6.0	3.2	1.8
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40	0.17
591-78-6	2-Hexanone	3.2	U	5.0	3.2	1.4
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	1.0
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.20	U	1.0	0.20	0.16
108-86-1	Bromobenzene	0.20	U	1.0	0.20	0.17
75-25-2	Bromoform	0.40	U	1.0	0.40	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.40	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-17248-1

SDG No.:

Client Sample ID: 062111JR | Lab Sample ID: 280-17248-4

Matrix: Water | Lab File ID: RR6949.D

Analysis Method: 8260B/DoD | Date Collected: 06/21/2011 10:20

Sample wt/vol: 20(mL) | Date Analyzed: 07/02/2011 16:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 75056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.20	U	1.0	0.20	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.20	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.20	U	1.0	0.20	0.16
74-87-3	Chloromethane	1.6	U	2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	0.40	U	1.0	0.40	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.20	0.16
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.40	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	0.40	U	5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.80	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.40	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.20	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.40	0.19
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.40	0.17
100-42-5	Styrene	0.40	U	1.0	0.40	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.40	0.16
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.20	U	1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Client Sample ID: 062111JR Lab Sample ID: 280-17248-4

Matrix: Water Lab File ID: RR6949.D

Analysis Method: 8260B/DoD Date Collected: 06/21/2011 10:20

Sample wt/vol: 20(mL) Date Analyzed: 07/02/2011 16:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 75056 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-120
460-00-4	4-Bromofluorobenzene (Surr)	91		75-120
1868-53-7	Dibromofluoromethane (Surr)	97		85-115
2037-26-5	Toluene-d8 (Surr)	97		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\RR6949.D
Lab Smp Id: 280-17248-B-4 Client Smp ID: 062111JR
Inj Date : 02-JUL-2011 16:42
Operator : MEIERG Inst ID: R2.i
Smp Info : 280-17248-b-4,,PH<2
Misc Info : 280-17248-B-4
Comment :
Method : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\8260B-H2O.m
Meth Date : 02-Jul-2011 09:02 meierg Quant Type: ISTD
Cal Date : 29-JUN-2011 09:32 Cal File: RR6743.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	59	Fluorobenzene	96	8.747	8.737	(1.000)	1177804	12.5000	
*	85	Chlorobenzene-d5	119	11.620	11.610	(1.000)	231710	12.5000	
*	110	1,4-Dichlorobenzene-d4	152	14.187	14.187	(1.000)	264330	12.5000	
$	49	Dibromofluoromethane (Surr)	111	8.147	8.147	(0.931)	311965	10.2362	10.2362
$	55	1,2-Dichloroethane-d4	65	8.472	8.482	(0.969)	192881	9.58820	9.58820
$	73	Toluene-d8	98	10.125	10.134	(0.871)	1138802	10.2123	10.2122
$	96	4-Bromofluorobenzene (Surr)	95	12.889	12.889	(0.908)	338361	9.60718	9.60718
M	9	1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	10	Xylene (total)	106	Compound Not Detected.					
	1	dichlorodifluoromethane	85	Compound Not Detected.					
	2	1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	3	Chloromethane	50	Compound Not Detected.					
	4	Vinyl Chloride	62	Compound Not Detected.					
	5	Ethylene Oxide	43	Compound Not Detected.					
	6	Bromomethane	94	Compound Not Detected.					
	7	Chloroethane	64	Compound Not Detected.					
	8	Dichlorofluoromethane	67	Compound Not Detected.					
	11	Trichlorofluoromethane	101	Compound Not Detected.					
	12	Ethanol	45	Compound Not Detected.					
	13	1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
	15	Ethyl Ether	59	Compound Not Detected.					
	16	2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
18	Acrolein	56	Compound Not Detected.					
19	Acetone	43	Compound Not Detected.					
20	Trichlorotrifluoroethane	151	Compound Not Detected.					
14	2-propanol	45	Compound Not Detected.					
21	1,1-Dichloroethene	96	Compound Not Detected.					
22	Iodomethane	142	Compound Not Detected.					
23	Acetonitrile	41	Compound Not Detected.					
24	Methyl Acetate	43	Compound Not Detected.					
28	Carbon Disulfide	76	Compound Not Detected.					
27	Allyl Chloride	41	Compound Not Detected.					
29	tert-Butyl alcohol	59	Compound Not Detected.					
30	Methylene Chloride	84	Compound Not Detected.					
31	Acrylonitrile	53	Compound Not Detected.					
32	Methyl t-butyl ether	73	Compound Not Detected.					
33	trans-1,2-Dichloroethene	96	Compound Not Detected.					
34	Hexane	57	Compound Not Detected.					
35	Vinyl acetate	43	Compound Not Detected.					
36	Isopropyl ether	87	Compound Not Detected.					
37	1,1-Dichloroethane	63	Compound Not Detected.					
38	Chloroprene	53	Compound Not Detected.					
39	ETBE	59	Compound Not Detected.					
41	2-Butanone	43	Compound Not Detected.					
134	2-Butanol	45	Compound Not Detected.					
40	Ethyl Acetate	43	Compound Not Detected.					
43	cis-1,2-Dichloroethene	96	Compound Not Detected.					
42	Propionitrile	54	Compound Not Detected.					
44	2,2-Dichloropropane	77	Compound Not Detected.					
45	Methacrylonitrile	41	Compound Not Detected.					
46	Bromochloromethane	128	Compound Not Detected.					
47	Chloroform	83	Compound Not Detected.					
48	Tetrahydrofuran	42	Compound Not Detected.					
51	1,1,1-Trichloroethane	97	Compound Not Detected.					
50	Isobutanol	41	Compound Not Detected.					
52	Cyclohexane	56	Compound Not Detected.					
53	1,1-Dichloropropene	75	Compound Not Detected.					
54	Carbon Tetrachloride	117	Compound Not Detected.					
56	1,2-Dichloroethane	62	Compound Not Detected.					
58	Benzene	78	Compound Not Detected.					
57	TAME	73	Compound Not Detected.					
60	n-Butanol	56	Compound Not Detected.					
61	Trichloroethene	95	Compound Not Detected.					
62	2-Pentanone	43	Compound Not Detected.					
63	Methyl Methacrylate	100	Compound Not Detected.					
65	1,2-Dichloropropane	63	Compound Not Detected.					
64	Methyl Cyclohexane	55	Compound Not Detected.					
66	1,4-Dioxane	88	Compound Not Detected.					
67	Dibromomethane	93	Compound Not Detected.					
68	Bromodichloromethane	83	Compound Not Detected.					
70	2-nitropropane	41	Compound Not Detected.					
69	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71	cis-1,3-Dichloropropene	75	Compound Not Detected.					
72	4-Methyl-2-pentanone	43	Compound Not Detected.					
74	Toluene	91	Compound Not Detected.					
76	trans-1,3-Dichloropropene	75	Compound Not Detected.					

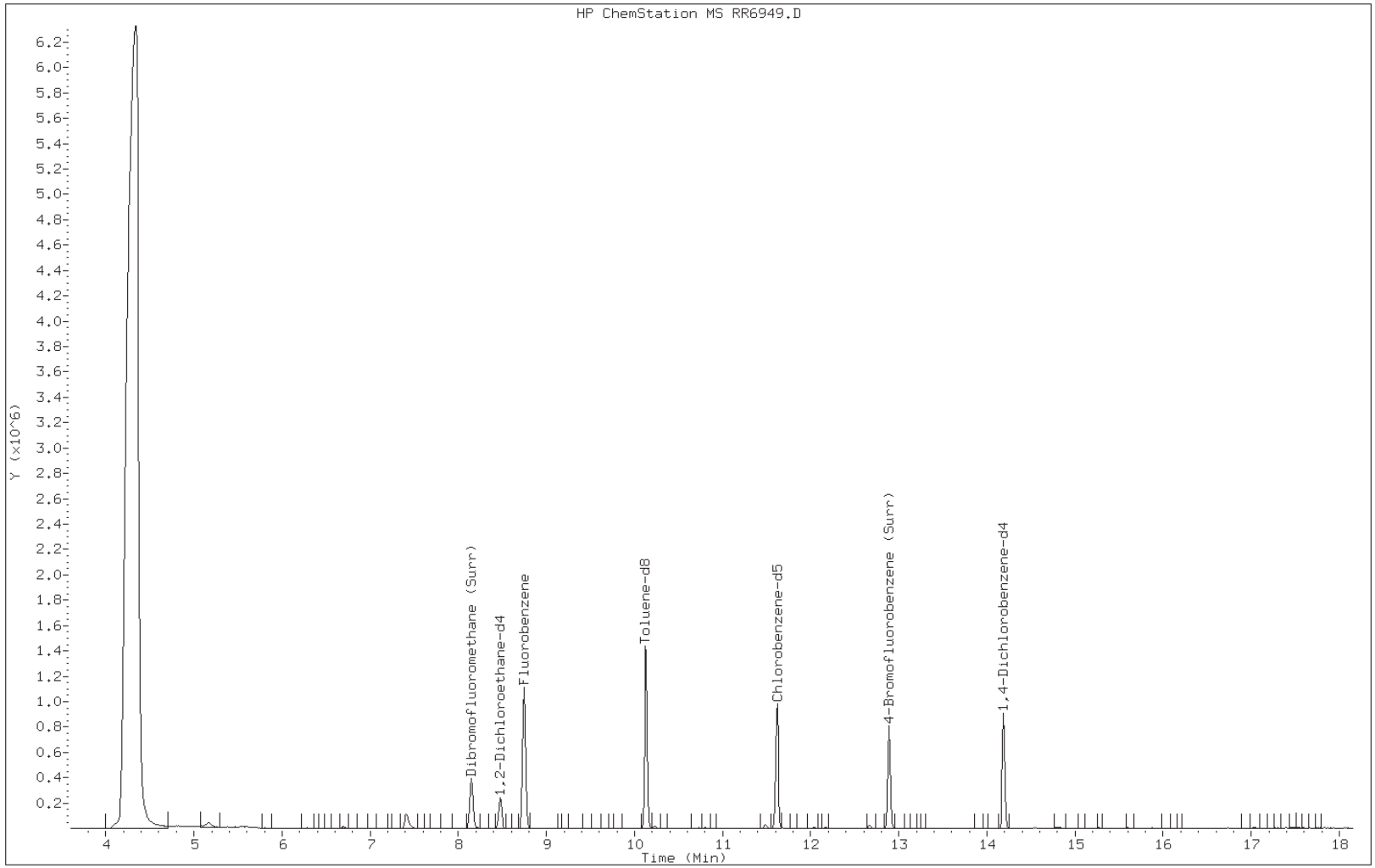
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
75	Ethyl methacrylate	69	Compound Not Detected.					
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
87	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
88	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
90	o-Xylene	106	Compound Not Detected.					
91	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
100	Bromobenzene	156	Compound Not Detected.					
101	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	Compound Not Detected.					
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
111	1,4-dichlorobenzene	146	Compound Not Detected.					
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
117	Hexachlorobutadiene	225	Compound Not Detected.					
119	Naphthalene	128	Compound Not Detected.					
120	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: RR6949.D

Date: 02-JUL-2011 16:42

Client ID: 062111JR Instrument: R2.i

Sample Info: 280-17248-b-4,,PH<2 Operator: MEIERG



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74138

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 09:48 Calibration End Date: 06/27/2011 12:01 Calibration ID: 6301

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-74138/2	RR6651.D
Level 2	IC 280-74138/3	RR6652.D
Level 3	IC 280-74138/4	RR6653.D
Level 4	IC 280-74138/5	RR6654.D
Level 5	IC 280-74138/6	RR6655.D
Level 6	IC 280-74138/7	RR6656.D
Level 7	IC 280-74138/8	RR6657.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.0010	+++++ 0.0009	0.0012	0.0010	0.0010	Ave		0.0010				8.8		15.0			
Dichlorodifluoromethane	+++++ 0.2601	0.2123 0.2546	0.2230	0.2861	0.2689	Ave		0.2508				11.2		15.0			
Chloromethane	+++++ 0.3902	0.4264 0.3942	0.3923	0.4412	0.4021	Ave		0.4077			0.1000	5.2		15.0			
Vinyl chloride	0.3157 0.3253	0.3065 0.3230	0.3115	0.3448	0.3289	Ave		0.3222				3.9		30.0			
1,2-Dichloroethene, Total	+++++ 0.3008	0.3630 0.3003	0.3506	0.3323	0.3151	Ave		0.3270				8.0		15.0			
Xylenes, Total	+++++ 2.3128	2.8666 2.1647	2.8057	2.5908	2.4417	Ave		2.5304				10.9		15.0			
Bromomethane	+++++ 0.2221	0.2509 0.2005	0.2455	0.2598	0.2349	Ave		0.2356				9.2		15.0			
Chloroethane	+++++ 0.1831	0.1882 0.1678	0.1937	0.2066	0.1980	Ave		0.1896				7.1		15.0			
Trichlorofluoromethane	0.4422 0.3934	0.4148 0.3766	0.4067	0.4322	0.3980	Ave		0.4091				5.6		15.0			
Acrolein	+++++ 0.0163	+++++ 0.0166	0.0172	0.0164	0.0169	Ave		0.0167				2.1		15.0			
Acetone	+++++ 0.0225	0.0517 0.0219	0.0364	0.0304	0.0253	Lin	-0.542	0.0213							0.9999		
1,1-Dichloroethene	+++++ 0.2751	0.3387 0.2694	0.3213	0.3141	0.2898	Ave		0.3014				9.1		30.0			
Iodomethane	+++++ 0.4339	0.4699 0.4320	0.4677	0.4634	0.4435	Ave		0.4518				3.8		15.0			
Acetonitrile	+++++ 0.0085	0.0105 +++++	0.0107	0.0094	0.0083	Ave		0.0095				11.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74138

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 09:48 Calibration End Date: 06/27/2011 12:01 Calibration ID: 6301

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.0345	0.0435 0.0351	0.0397	0.0401	0.0362	Ave		0.0382				9.2		15.0			
2-Methyl-2-propanol	+++++ 0.0056	0.0062 0.0056	0.0062	0.0062	0.0057	Ave		0.0059				5.5		15.0			
Methylene Chloride	+++++ 0.2426	0.3860 0.2378	0.3181	0.2882	0.2600	Lin	-0.072	0.2347							0.9999		
Acrylonitrile	+++++ 0.0280	0.0311 0.0288	0.0306	0.0306	0.0287	Ave		0.0296				4.3		15.0			
trans-1,2-Dichloroethene	+++++ 0.3117	0.3687 0.3093	0.3585	0.3394	0.3211	Ave		0.3348				7.4		15.0			
Isopropyl ether	+++++ 0.1463	0.1695 0.1430	0.1672	0.1674	0.1554	Ave		0.1581				7.4		15.0			
1,1-Dichloroethane	+++++ 0.5412	0.6340 0.5401	0.6168	0.5954	0.5565	Ave		0.5807			0.1000	7.0		15.0			
2-Chloro-1,3-butadiene	+++++ 0.5300	0.6208 0.5190	0.6056	0.5804	0.5415	Ave		0.5662				7.4		15.0			
cis-1,2-Dichloroethene	+++++ 0.2898	0.3573 0.2914	0.3426	0.3252	0.3091	Ave		0.3192				8.6		15.0			
Propionitrile	+++++ 0.0094	0.0114 0.0096	0.0110	0.0105	0.0100	Ave		0.0103				7.6		15.0			
2,2-Dichloropropane	+++++ 0.3466	0.4473 0.3383	0.4216	0.3888	0.3655	Ave		0.3847				11.2		15.0			
Methacrylonitrile	+++++ 0.0551	0.0643 0.0551	0.0636	0.0603	0.0560	Ave		0.0591				7.2		15.0			
Chlorobromomethane	0.1142 0.0987	0.1085 0.0981	0.1081	0.1070	0.0997	Ave		0.1049				5.8		15.0			
Chloroform	0.5866 0.4414	0.5332 0.4367	0.5105	0.4916	0.4595	Ave		0.4942				11.0		30.0			
1,4-Dioxane	+++++ 0.0007	+++++ 0.0007	0.0005	0.0007	0.0007	Ave		0.0006				11.4		15.0			
Isobutyl alcohol	+++++ 0.0023	+++++ 0.0022	0.0026	0.0025	0.0023	Ave		0.0024				7.2		15.0			
1,1,1-Trichloroethane	+++++ 0.4138	0.4956 0.4062	0.4610	0.4425	0.4189	Ave		0.4397				7.8		15.0			
1,1-Dichloropropene	+++++ 0.4088	0.4996 0.4023	0.4902	0.4553	0.4231	Ave		0.4466				9.4		15.0			
Carbon tetrachloride	+++++ 0.3612	0.4191 0.3565	0.4076	0.3909	0.3642	Ave		0.3832				6.9		15.0			
1,2-Dichloroethane	0.2552 0.2004	0.2443 0.2020	0.2300	0.2250	0.2060	Ave		0.2233				9.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74138

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 09:48 Calibration End Date: 06/27/2011 12:01 Calibration ID: 6301

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzene	1.3812 1.0551	1.2773 1.0351	1.1968	1.1698	1.0861	Ave		1.1716				10.8		15.0			
Trichloroethene	+++++ 0.2980	0.3674 0.2942	0.3474	0.3330	0.3075	Ave		0.3246				9.1		15.0			
1,2-Dichloropropane	+++++ 0.2519	0.2977 0.2526	0.2875	0.2765	0.2490	Ave		0.2692				7.8		30.0			
Dibromomethane	+++++ 0.0962	0.1134 0.0993	0.1075	0.1055	0.0968	Ave		0.1031				6.6		15.0			
Dichlorobromomethane	0.3265 0.2667	0.3104 0.2678	0.2918	0.2911	0.2616	Ave		0.2880				8.5		15.0			
cis-1,3-Dichloropropene	0.3975 0.3089	0.3611 0.3148	0.3473	0.3367	0.3141	Ave		0.3401				9.4		15.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.0784	0.0853 0.0799	0.0861	0.0866	0.0799	Ave		0.0827				4.5		15.0			
Toluene	+++++ 1.0862	1.3221 1.0665	1.2693	1.1758	1.1055	Ave		1.1709				9.0		30.0			
trans-1,3-Dichloropropene	0.2553 0.2126	0.2414 0.2201	0.2410	0.2305	0.2132	Ave		0.2306				7.0		15.0			
1,1,2-Trichloroethane	+++++ 0.1101	0.1289 0.1121	0.1237	0.1214	0.1136	Ave		0.1183				6.3		15.0			
2-Hexanone	+++++ 0.2757	0.3207 0.2709	0.3435	0.3099	0.2916	Ave		0.3020				9.2		15.0			
1,3-Dichloropropane	+++++ 0.9894	1.1694 0.9654	1.1604	1.1246	1.0440	Ave		1.0755				8.2		15.0			
Tetrachloroethene	+++++ 1.0573	1.3439 1.0066	1.2693	1.1711	1.1132	Ave		1.1602				11.1		15.0			
Bromoform	+++++ 0.3283	0.3392 0.3347	0.3569	0.3457	0.3357	Ave		0.3401			0.1000	2.9		15.0			
Chlorodibromomethane	0.8665 0.7936	0.8629 0.8088	0.8517	0.8649	0.8132	Ave		0.8374				3.7		15.0			
Ethylene Dibromide	+++++ 0.5984	0.6872 0.6193	0.7081	0.6705	0.6309	Ave		0.6524				6.5		15.0			
1,2,3-Trichloropropane	+++++ 0.1208	0.1303 0.1305	0.1461	0.1454	0.1295	Ave		0.1338				7.4		15.0			
1-Chlorohexane	+++++ 2.1432	2.8105 1.9743	2.7510	2.4969	2.3289	Ave		2.4175				13.7		15.0			
Chlorobenzene	4.5661 3.3210	4.1390 3.2388	3.9482	3.6855	3.5060	Ave		3.7721			0.3000	12.6		15.0			
Ethylbenzene	+++++ 1.9377	2.3688 1.7834	2.3390	2.1396	2.0129	Ave		2.0969				11.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74138

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 09:48 Calibration End Date: 06/27/2011 12:01 Calibration ID: 6301

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,1,2-Tetrachloroethane	1.2118 0.9958	1.1293 0.9575	1.1292	1.0832	1.0233	Ave		1.0757				8.3		15.0			
m-Xylene & p-Xylene	+++++ 2.4074	2.9639 2.2317	2.9100	2.6964	2.5295	Ave		2.6232				10.9		15.0			
o-Xylene	+++++ 2.1236	2.6721 2.0306	2.5971	2.3795	2.2662	Ave		2.3449				10.9		15.0			
Styrene	+++++ 3.2051	3.6882 3.1163	3.7126	3.5051	3.3409	Ave		3.4281				7.3		15.0			
Isopropylbenzene	+++++ 5.1840	7.0211 5.2412	6.8355	6.2798	5.7718	Ave		6.0556				13.0		15.0			
Cyclohexanone	+++++ 0.0114	0.0131 0.0115	0.0127	0.0125	0.0114	Ave		0.0121				6.2		15.0			
1,1,2,2-Tetrachloroethane	0.6119 0.5302	0.6190 0.5460	0.6130	0.6326	0.5606	Ave		0.5876			0.3000	6.9		15.0			
N-Propylbenzene	+++++ 1.5216	1.9596 1.4292	1.9069	1.7913	1.6344	Ave		1.7072				12.5		15.0			
Bromobenzene	+++++ 0.9585	1.2036 0.9663	1.1543	1.1210	1.0305	Ave		1.0723				9.5		15.0			
1,3,5-Trimethylbenzene	+++++ 4.4555	5.8073 4.3501	5.6729	5.3188	4.9254	Ave		5.0883				12.1		15.0			
2-Chlorotoluene	+++++ 1.2146	1.5655 1.2138	1.5107	1.4727	1.3405	Ave		1.3863				11.0		15.0			
4-Chlorotoluene	+++++ 1.2311	1.5783 1.2123	1.4999	1.3984	1.3259	Ave		1.3743				10.6		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0623	+++++ 0.0652	0.0561	0.0641	0.0616	Ave		0.0619				5.7		15.0			
tert-Butylbenzene	+++++ 4.1463	5.4271 3.8581	5.1733	4.6247	4.3906	Ave		4.6034				13.1		15.0			
1,2,4-Trimethylbenzene	+++++ 4.4705	5.6590 4.3018	5.4452	5.1513	4.7331	Ave		4.9601				11.0		15.0			
sec-Butylbenzene	+++++ 1.0482	1.3868 0.9991	1.3620	1.2409	1.1424	Ave		1.1966				13.4		15.0			
4-Isopropyltoluene	+++++ 4.9198	6.5222 4.6148	6.1342	5.6970	5.1943	Ave		5.5137				13.3		15.0			
1,3-Dichlorobenzene	+++++ 1.9323	2.4873 1.8593	2.4040	2.1886	2.0362	Ave		2.1513				11.8		15.0			
1,4-Dichlorobenzene	+++++ 1.8301	2.2414 1.7774	2.1789	2.0164	1.9020	Ave		1.9910				9.5		15.0			
n-Butylbenzene	+++++ 4.8794	6.5300 4.3336	6.1837	5.4435	5.1800	Lin1	-0.052	4.5240							0.9955		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74138

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 09:48 Calibration End Date: 06/27/2011 12:01 Calibration ID: 6301

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichlorobenzene	+++++ 1.4526	1.7837 1.4420	1.7376	1.6906	1.5433	Ave		1.6083				9.2		15.0			
Naphthalene	+++++ 1.0792	1.2079 1.0495	1.2079	1.1427	1.0610	Ave		1.1247				6.4		15.0			
1,2,4-Trichlorobenzene	+++++ 0.8771	1.0067 0.8479	1.0002	0.9461	0.8877	Ave		0.9276				7.2		15.0			
Hexachlorobutadiene	+++++ 0.6826	0.8756 0.5774	0.8277	0.7114	0.6908	Ave		0.7276				14.8		15.0			
1,2,3-Trichlorobenzene	+++++ 0.6212	0.6806 0.5924	0.7147	0.6564	0.6215	Ave		0.6478				6.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74138

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 09:48 Calibration End Date: 06/27/2011 12:01 Calibration ID: 6301

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-74138/2	RR6651.D
Level 2	IC 280-74138/3	RR6652.D
Level 3	IC 280-74138/4	RR6653.D
Level 4	IC 280-74138/5	RR6654.D
Level 5	IC 280-74138/6	RR6655.D
Level 6	IC 280-74138/7	RR6656.D
Level 7	IC 280-74138/8	RR6657.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Ethanol	FB	Ave	+++++ 137904	+++++ 265882	11556	26754	47673	+++++ 1500	+++++ 3000	100	250	500
Dichlorodifluoromethane	FB	Ave	+++++ 748124	21421 1452163	44642	147001	262412	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloromethane	FB	Ave	+++++ 1122303	43034 2248316	78524	226661	392483	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	9602 935430	30928 1842020	62359	177167	320983	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethene, Total	FB	Ave	+++++ 1729990	73267 3426004	140341	341463	615161	+++++ 60.0	2.00 120	4.00	10.0	20.0
Xylenes, Total	CBZ	Ave	+++++ 3836539	163851 7262271	314219	751987	1340140	+++++ 90.0	3.00 180	6.00	15.0	30.0
Bromomethane	FB	Ave	+++++ 638834	25315 1143299	49136	133485	229227	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloroethane	FB	Ave	+++++ 526583	18989 957286	38782	106149	193241	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Trichlorofluoromethane	FB	Ave	13450 1131231	41859 2147806	81416	222070	388487	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Acrolein	FB	Ave	+++++ 469363	+++++ 947557	34358	84273	164651	+++++ 300	+++++ 600	20.0	50.0	100
Acetone	FB	Lin	+++++ 258543	20872 499271	29136	62501	98658	+++++ 120	4.00 240	8.00	20.0	40.0
1,1-Dichloroethene	FB	Ave	+++++ 791233	34179 1536349	64319	161396	282860	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Iodomethane	FB	Ave	+++++ 1247769	47421 2464157	93626	238082	432904	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Acetonitrile	FB	Ave	+++++ 243234	10636 +++++	21343	48112	81459	+++++ 300	10.0 +++++	20.0	50.0	100
2-Butanone (MEK)	FB	Ave	+++++ 397016	17569 801237	31758	82356	141189	+++++ 120	4.00 240	8.00	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74138

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 09:48 Calibration End Date: 06/27/2011 12:01 Calibration ID: 6301

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Methyl-2-propanol	FB	Ave	+++++ 320888	12604 635322	24717	63469	111320	+++++ 600	20.0 1200	40.0	100	200
Methylene Chloride	FB	Lin	+++++ 697740	38950 1356367	63671	148080	253800	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Acrylonitrile	FB	Ave	+++++ 805361	31354 1644637	61242	157373	280220	+++++ 300	10.0 600	20.0	50.0	100
trans-1,2-Dichloroethene	FB	Ave	+++++ 896474	37209 1763949	71759	174386	313452	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	+++++ 2103067	85536 4076935	167378	429995	758519	+++++ 150	5.00 300	10.0	25.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1556419	63984 3080193	123463	305879	543159	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 1524225	62648 2959898	121228	298165	528518	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 833516	36058 1662055	68582	167077	301709	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Propionitrile	FB	Ave	+++++ 269394	11487 549092	21925	53972	97194	+++++ 300	10.0 600	20.0	50.0	100
2,2-Dichloropropane	FB	Ave	+++++ 996694	45141 1929218	84402	199760	356753	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methacrylonitrile	FB	Ave	+++++ 1585883	64861 3141399	127269	309977	546611	+++++ 300	10.0 600	20.0	50.0	100
Chlorobromomethane	FB	Ave	3474 283859	10954 559709	21645	54965	97358	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroform	FB	Ave	17845 1269332	53810 2490878	102181	252551	448440	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dioxane	FB	Ave	+++++ 96172	+++++ 193730	5089	17179	32319	+++++ 1500	+++++ 3000	100	250	500
Isobutyl alcohol	FB	Ave	+++++ 129776	+++++ 252788	10392	25874	44552	+++++ 600	+++++ 1200	40.0	100	200
1,1,1-Trichloroethane	FB	Ave	+++++ 1190122	50014 2317000	92276	227360	408833	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	+++++ 1175735	50421 2294534	98131	233907	412917	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 1038774	42290 2033357	81591	200804	355455	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane	FB	Ave	7764 576460	24652 1152074	46037	115603	201021	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Benzene	FB	Ave	42015 3034457	128901 5903849	239566	600980	1060085	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Trichloroethene	FB	Ave	+++++ 857079	37077 1678116	69532	171100	300089	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74138

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 09:48 Calibration End Date: 06/27/2011 12:01 Calibration ID: 6301

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	+++++ 724404	30042 1440921	57543	142064	242996	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	+++++ 276769	11448 566378	21527	54223	94449	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dichlorobromomethane	FB	Ave	9933 766936	31324 1527551	58407	149530	255333	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	12093 888396	36438 1795437	69523	173004	306597	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	+++++ 901853	34433 1821867	68938	177922	311880	+++++ 120	4.00 240	8.00	20.0	40.0
Toluene	FB	Ave	+++++ 3123802	133424 6082886	254084	604090	1079004	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
trans-1,3-Dichloropropene	FB	Ave	7765 611469	24358 1255180	48244	118420	208123	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2-Trichloroethane	FB	Ave	+++++ 316630	13007 639183	24769	62392	110922	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Hexanone	CBZ	Ave	+++++ 609790	24441 1211648	51291	119925	213379	+++++ 120	4.00 240	8.00	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	+++++ 547080	22280 1079636	43319	108808	190995	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	+++++ 584597	25606 1125688	47384	113304	203657	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromoform	CBZ	Ave	+++++ 181526	6462 374313	13325	33445	61425	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chlorodibromomethane	CBZ	Ave	5019 438829	16441 904529	31796	83677	148768	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylene Dibromide	CBZ	Ave	+++++ 330861	13093 692593	26433	64871	115423	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	+++++ 70693	2590 147479	5663	14087	24452	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1-Chlorohexane	CBZ	Ave	+++++ 1185087	53548 2207897	102696	241580	426068	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chlorobenzene	CBZ	Ave	26448 1836310	78860 3621962	147388	356574	641429	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	+++++ 1071414	45132 1994390	87318	207008	368266	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	7019 550603	21517 1070770	42155	104801	187219	0.300 30.0	1.00 60.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBZ	Ave	+++++ 2662319	112940 4991451	217267	521765	925536	+++++ 60.0	2.00 120	4.00	10.0	20.0
o-Xylene	CBZ	Ave	+++++ 1174220	50911 2270820	96952	230222	414604	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74138

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 09:48 Calibration End Date: 06/27/2011 12:01 Calibration ID: 6301

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBZ	Ave	+++++ 1772250	70270 3484988	138595	339126	611228	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Isopropylbenzene	DCB	Ave	+++++ 3033009	139512 5921406	265034	608290	1090017	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Cyclohexanone	CBZ	Ave	+++++ 252427	10006 516531	18962	48552	83559	+++++ 1200	40.0 2400	80.0	200	400
1,1,2,2-Tetrachloroethane	DCB	Ave	3679 310229	12299 616884	23768	61275	105863	0.300 30.0	1.00 60.0	2.00	5.00	10.0
N-Propylbenzene	DCB	Ave	+++++ 890236	38938 1614665	73937	173518	308663	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromobenzene	DCB	Ave	+++++ 560788	23915 1091663	44754	108589	194606	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	+++++ 2606770	115392 4914622	219956	515204	930181	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	+++++ 710637	31106 1371375	58574	142650	253163	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	+++++ 720260	31361 1369678	58154	135455	250400	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 36470	+++++ 73708	2176	6212	11642	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	+++++ 2425903	107838 4358822	200584	447972	829175	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	+++++ 2615550	112447 4860142	211127	498975	893850	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Ave	+++++ 613276	27557 1128765	52810	120195	215748	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
4-Isopropyltoluene	DCB	Ave	+++++ 2878442	129599 5213670	237843	551843	980959	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	+++++ 1130531	49424 2100600	93210	211994	384543	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCB	Ave	+++++ 1070723	44538 2008042	84483	195323	359193	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Lin1	+++++ 2854769	129753 4895990	239761	527280	978254	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	+++++ 849896	35442 1629111	67372	163760	291457	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Naphthalene	DCB	Ave	+++++ 631408	24001 1185683	46834	110684	200367	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 513171	20003 957981	38780	91642	167644	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Hexachlorobutadiene	DCB	Ave	+++++ 399379	17399 652284	32091	68906	130464	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74138

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 09:48 Calibration End Date: 06/27/2011 12:01 Calibration ID: 6301

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,3-Trichlorobenzene	DCB	Ave	+++++ 363443	13523 669320	27710	63582	117367	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\RR6651.D
Lab Smp Id: IC
Inj Date : 27-JUN-2011 09:48
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : IC,, M 0.3 1.5uL 10x
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\8260B-H2O.m
Meth Date : 27-Jun-2011 19:41 R2.i Quant Type: ISTD
Cal Date : 27-JUN-2011 15:44 Cal File: RR6667.D
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	8.738	8.738	(1.000)	1267462	12.5000	
* 85	Chlorobenzene-d5	119	11.610	11.610	(1.000)	241342	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	14.178	14.178	(1.000)	250511	12.5000	(Q)
M 9	1,2-Dichloroethene (total)	96				22876	0.60000	0.690215(a)
M 25	Trihalomethanes (total)	100				32797	1.20000	1.00671
M 26	1,3-Dichloropropene (total)	100				19858	0.60000	0.682816(a)
M 10	Xylene (total)	106				55868	0.90000	1.14335
1	dichlorodifluoromethane	85	4.586	4.586	(0.525)	6580	0.30000	0.258708(aQ)
3	Chloromethane	50	4.842	4.842	(0.554)	15826	0.30000	0.382787(a)
4	Vinyl Chloride	62	5.029	5.029	(0.576)	9602	0.30000	0.293881(a)
6	Bromomethane	94	5.422	5.422	(0.621)	9574	0.30000	0.400770(a)
7	Chloroethane	64	5.511	5.511	(0.631)	6140	0.30000	0.319418(a)
11	Trichlorofluoromethane	101	5.767	5.767	(0.660)	13450	0.30000	0.324220(a)
12	Ethanol	45	Compound Not Detected.					
18	Acrolein	56	6.160	6.160	(0.705)	5432	3.00000	3.21283(a)
19	Acetone	43	6.268	6.268	(0.717)	13004	1.20000	-0.751975(a)
21	1,1-Dichloroethene	96	6.288	6.288	(0.720)	10985	0.30000	0.359432(a)
22	Iodomethane	142	6.495	6.495	(0.743)	15852	0.30000	0.346067(a)
23	Acetonitrile	41	6.534	6.534	(0.748)	4132	3.00000	4.30130(aQ)
29	tert-Butyl alcohol	59	6.642	6.642	(0.760)	3056	6.00000	5.10152(a)
30	Methylene Chloride	84	6.691	6.691	(0.766)	20363	0.30000	-0.0413411(a)
31	Acrylonitrile	53	6.868	6.868	(0.786)	9805	3.00000	3.26234(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.927	6.927	(0.793)	11480	0.30000	0.338170(a)
36 Isopropyl ether	87	7.213	7.213	(0.825)	28402	1.50000	1.77134(aQ)
37 1,1-Dichloroethane	63	7.291	7.291	(0.835)	19841	0.30000	0.336990(a)
38 Chloroprene	53	7.350	7.350	(0.841)	21134	0.30000	0.368113(a)
41 2-Butanone	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	7.764	7.764	(0.889)	11396	0.30000	0.352045(a)
42 Propionitrile	54	7.793	7.793	(0.892)	2971	3.00000	2.84500(aQ)
44 2,2-Dichloropropane	77	7.793	7.793	(0.892)	14479	0.30000	0.371198(a)
45 Methacrylonitrile	41	7.921	7.921	(0.907)	21679	3.00000	3.61954(a)
46 Bromochloromethane	128	7.990	7.990	(0.914)	3474	0.30000	0.326540(a)
47 Chloroform	83	7.990	7.990	(0.914)	17845	0.30000	0.356108(a)
51 1,1,1-Trichloroethane	97	8.236	8.236	(0.943)	16005	0.30000	0.359000(a)
50 Isobutanol	41	8.216	8.216	(0.940)	1708	6.00000	7.09633(a)
53 1,1-Dichloropropene	75	8.334	8.334	(0.954)	16895	0.30000	0.373126(a)
54 Carbon Tetrachloride	117	8.383	8.383	(0.959)	13415	0.30000	0.345222(a)
56 1,2-Dichloroethane	62	8.531	8.531	(0.976)	7764	0.30000	0.342943(a)
58 Benzene	78	8.551	8.551	(0.979)	42015	0.30000	0.353659(a)
60 n-Butanol	56	8.738	8.738	(1.000)	12209	9.00000	20.2413(aQ)
61 Trichloroethene	95	9.052	9.052	(1.036)	12272	0.30000	0.372873(a)
65 1,2-Dichloropropane	63	9.269	9.269	(1.061)	9159	0.30000	0.335548(a)
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	9.397	9.397	(1.075)	3483	0.30000	0.333045(a)
68 Bromodichloromethane	83	9.466	9.466	(1.083)	9933	0.30000	0.340164(a)
71 cis-1,3-Dichloropropene	75	9.849	9.849	(1.127)	12093	0.30000	0.350700(aQ)
72 4-Methyl-2-pentanone	43	9.918	9.918	(1.135)	12519	1.20000	1.49317(a)
74 Toluene	91	10.184	10.184	(1.165)	44955	0.30000	0.378639(a)
76 trans-1,3-Dichloropropene	75	10.321	10.321	(1.181)	7765	0.30000	0.332116(a)
77 1,1,2-Trichloroethane	97	10.528	10.528	(1.205)	4054	0.30000	0.337926(a)
78 2-Hexanone	43	10.676	10.676	(0.920)	8693	1.20000	1.49069(a)
79 1,3-Dichloropropane	76	10.715	10.715	(0.923)	7093	0.30000	0.341572(a)
80 Tetrachloroethene	164	10.735	10.735	(0.925)	8297	0.30000	0.370386(a)
81 Dibromochloromethane	129	10.981	10.981	(0.946)	5019	0.30000	0.310436(a)
83 1,2-Dibromoethane	107	11.167	11.167	(0.962)	3790	0.30000	0.300890(a)
84 1-Chlorohexane	91	11.463	11.463	(0.987)	18497	0.30000	0.396293(a)
86 Chlorobenzene	112	11.640	11.640	(1.003)	26448	0.30000	0.363152(a)
87 1,1,1,2-Tetrachloroethane	131	11.689	11.689	(1.007)	7019	0.30000	0.337945(a)
88 Ethylbenzene	106	11.689	11.689	(1.007)	15512	0.30000	0.383148(a)
89 m and p-Xylene	106	11.797	11.797	(1.016)	38695	0.60000	0.764026
90 o-Xylene	106	12.289	12.289	(1.058)	17173	0.30000	0.379321(a)
91 Styrene	104	12.299	12.299	(1.059)	24423	0.30000	0.369001(a)
92 Bromoform	173	Compound Not Detected.					
93 isopropyl benzene	105	12.663	12.663	(0.893)	46980	0.30000	0.387116(a)
95 Cyclohexanone	55	12.869	12.869	(1.108)	4653	12.0000	19.8754(a)
97 1,1,2,2-Tetrachloroethane	83	12.958	12.958	(0.914)	3679	0.30000	0.312408(a)
99 1,2,3-Trichloropropane	110	Compound Not Detected.					
100 Bromobenzene	156	13.105	13.105	(0.924)	7969	0.30000	0.370811(a)
101 n-Propylbenzene	120	13.096	13.096	(0.924)	14075	0.30000	0.411390(a)
103 2-Chlorotoluene	126	13.263	13.263	(0.935)	10560	0.30000	0.380093(a)
102 1,3,5-Trimethylbenzene	105	13.253	13.253	(0.935)	41320	0.30000	0.405199(a)
104 4-Chlorotoluene	126	13.371	13.371	(0.943)	10352	0.30000	0.375858(a)
105 tert-Butylbenzene	119	13.646	13.646	(0.963)	37554	0.30000	0.407066(a)
106 1,2,4-Trimethylbenzene	105	13.696	13.696	(0.966)	39523	0.30000	0.397593(a)
107 sec-Butylbenzene	134	13.892	13.892	(0.980)	9711	0.30000	0.404955(a)
108 4-Isopropyltoluene	119	14.020	14.020	(0.989)	44572	0.30000	0.403366(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	14.119	14.119	(0.996)	16649	0.30000	0.386166(a)
111 1,4-dichlorobenzene	146	14.207	14.207	(1.002)	15412	0.30000	0.386245(a)
113 n-Butylbenzene	91	14.522	14.522	(1.024)	48039	0.30000	-0.116048(a)
114 1,2-Dichlorobenzene	146	14.689	14.689	(1.036)	11481	0.30000	0.356202(a)
115 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116 1,2,4-Trichlorobenzene	180	16.922	16.922	(1.194)	7776	0.30000	0.418285(a)
117 Hexachlorobutadiene	225	17.109	17.109	(1.207)	5983	0.30000	0.410322(a)
119 Naphthalene	128	Compound Not Detected.					
120 1,2,3-Trichlorobenzene	180	17.788	17.788	(1.255)	6025	0.30000	0.464094(a)

QC Flag Legend

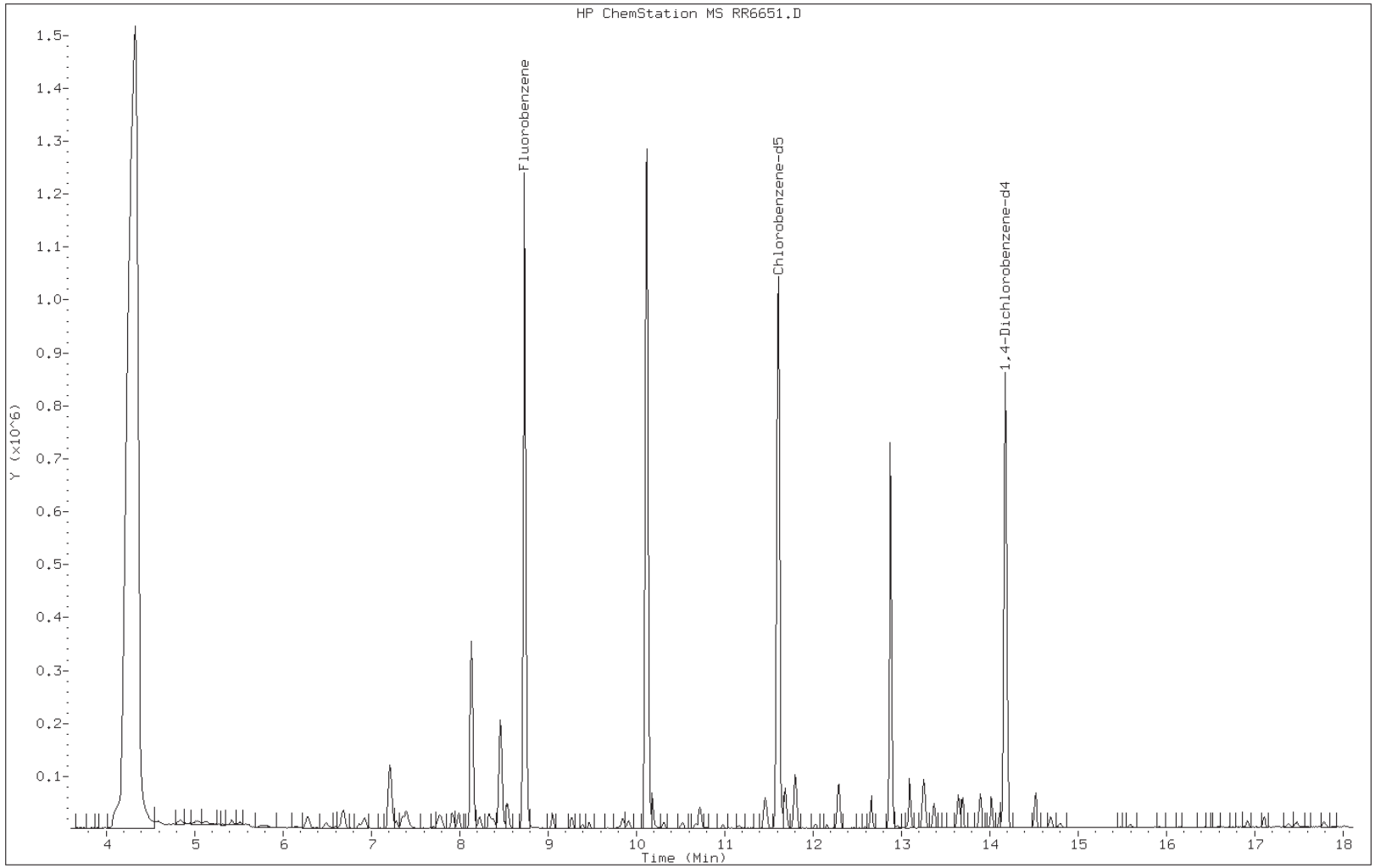
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: RR6651.D

Date: 27-JUN-2011 09:48

Client ID: Instrument: R2.i

Sample Info: IC,, M 0.3 1.5uL 10x Operator: DOBRANSKYM



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\RR6652.D
Lab Smp Id: IC
Inj Date : 27-JUN-2011 10:10
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : IC,, M 1.0 5uL 10x
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\8260B-H2O.m
Meth Date : 27-Jun-2011 19:41 R2.i Quant Type: ISTD
Cal Date : 27-JUN-2011 09:48 Cal File: RR6651.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	8.740	8.740	(1.000)	1261446	12.5000	
* 85	Chlorobenzene-d5	119	11.602	11.602	(1.000)	238160	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	14.180	14.180	(1.000)	248379	12.5000	
M 9	1,2-Dichloroethene (total)	96				73267	2.00000	2.22052
M 25	Trihalomethanes (total)	100				108037	4.00000	4.18453
M 26	1,3-Dichloropropene (total)	100				60796	2.00000	2.10853
M 10	Xylene (total)	106				163851	3.00000	3.39933
1	dichlorodifluoromethane	85	4.608	4.608	(0.527)	21421	1.00000	0.846233(aQ)
3	Chloromethane	50	4.844	4.844	(0.554)	43034	1.00000	1.04584(a)
4	Vinyl Chloride	62	5.031	5.031	(0.576)	30928	1.00000	0.951104(a)
6	Bromomethane	94	5.434	5.434	(0.622)	25315	1.00000	1.06475(a)
7	Chloroethane	64	5.513	5.513	(0.631)	18989	1.00000	0.992566(a)
11	Trichlorofluoromethane	101	5.769	5.769	(0.660)	41859	1.00000	1.01385(a)
12	Ethanol	45	Compound Not Detected.					
18	Acrolein	56	6.152	6.152	(0.704)	16938	10.0000	10.0660(a)
19	Acetone	43	6.271	6.271	(0.717)	20872	4.00000	2.93745(a)
21	1,1-Dichloroethene	96	6.290	6.290	(0.720)	34179	1.00000	1.12368
22	Iodomethane	142	6.497	6.497	(0.743)	47421	1.00000	1.04019
23	Acetonitrile	41	6.546	6.546	(0.749)	10636	10.0000	11.1246(aQM)
29	tert-Butyl alcohol	59	6.644	6.644	(0.760)	12604	20.0000	21.1408(a)
30	Methylene Chloride	84	6.684	6.684	(0.765)	38950	1.00000	0.747490(a)
31	Acrylonitrile	53	6.871	6.871	(0.786)	31354	10.0000	10.4819(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.930	6.930	(0.793)	37209	1.00000	1.10130
36 Isopropyl ether	87	7.215	7.215	(0.826)	85536	5.00000	5.36005(a)
37 1,1-Dichloroethane	63	7.284	7.284	(0.833)	63984	1.00000	1.09192
38 Chloroprene	53	7.353	7.353	(0.841)	62648	1.00000	1.09641
41 2-Butanone	43	7.717	7.717	(0.883)	17569	4.00000	4.56026(a)
43 cis-1,2-Dichloroethene	96	7.766	7.766	(0.889)	36058	1.00000	1.11922
42 Propionitrile	54	7.786	7.786	(0.891)	11487	10.0000	11.0523(Q)
44 2,2-Dichloropropane	77	7.795	7.795	(0.892)	45141	1.00000	1.16280(a)
45 Methacrylonitrile	41	7.923	7.923	(0.907)	64861	10.0000	10.8809
46 Bromochloromethane	128	7.992	7.992	(0.914)	10954	1.00000	1.03454
47 Chloroform	83	7.992	7.992	(0.914)	53810	1.00000	1.07893
51 1,1,1-Trichloroethane	97	8.238	8.238	(0.943)	50014	1.00000	1.12719
50 Isobutanol	41	8.218	8.218	(0.940)	5326	20.0000	22.2338(a)
53 1,1-Dichloropropene	75	8.336	8.336	(0.954)	50421	1.00000	1.11886
54 Carbon Tetrachloride	117	8.386	8.386	(0.959)	42290	1.00000	1.09348
56 1,2-Dichloroethane	62	8.533	8.533	(0.976)	24652	1.00000	1.09409
58 Benzene	78	8.543	8.543	(0.977)	128901	1.00000	1.09019
60 n-Butanol	56	8.740	8.740	(1.000)	15335	30.0000	37.3771(a)
61 Trichloroethene	95	9.055	9.055	(1.036)	37077	1.00000	1.13192
65 1,2-Dichloropropane	63	9.271	9.271	(1.061)	30042	1.00000	1.10586
66 1,4-Dioxane	88	9.340	9.340	(1.069)	2661	50.0000	41.3606(a)
67 Dibromomethane	93	9.399	9.399	(1.075)	11448	1.00000	1.09988
68 Bromodichloromethane	83	9.468	9.468	(1.083)	31324	1.00000	1.07783
71 cis-1,3-Dichloropropene	75	9.851	9.851	(1.127)	36438	1.00000	1.06175(Q)
72 4-Methyl-2-pentanone	43	9.910	9.910	(1.134)	34433	4.00000	4.12649(a)
74 Toluene	91	10.186	10.186	(1.165)	133424	1.00000	1.12914
76 trans-1,3-Dichloropropene	75	10.314	10.314	(1.180)	24358	1.00000	1.04678
77 1,1,2-Trichloroethane	97	10.530	10.530	(1.205)	13007	1.00000	1.08938
78 2-Hexanone	43	10.678	10.678	(0.920)	24441	4.00000	4.24717(a)
79 1,3-Dichloropropane	76	10.717	10.717	(0.924)	22280	1.00000	1.08726
80 Tetrachloroethene	164	10.727	10.727	(0.925)	25606	1.00000	1.15835
81 Dibromochloromethane	129	10.983	10.983	(0.947)	16441	1.00000	1.03050
83 1,2-Dibromoethane	107	11.160	11.160	(0.962)	13093	1.00000	1.05335
84 1-Chlorohexane	91	11.455	11.455	(0.987)	53548	1.00000	1.16258
86 Chlorobenzene	112	11.642	11.642	(1.003)	78860	1.00000	1.09728
87 1,1,1,2-Tetrachloroethane	131	11.691	11.691	(1.008)	21517	1.00000	1.04982
88 Ethylbenzene	106	11.691	11.691	(1.008)	45132	1.00000	1.12966
89 m and p-Xylene	106	11.799	11.799	(1.017)	112940	2.00000	2.25977
90 o-Xylene	106	12.291	12.291	(1.059)	50911	1.00000	1.13956
91 Styrene	104	12.291	12.291	(1.059)	70270	1.00000	1.07588
92 Bromoform	173	12.596	12.596	(1.086)	6462	1.00000	0.997272(a)
93 isopropyl benzene	105	12.665	12.665	(0.893)	139512	1.00000	1.15945
95 Cyclohexanone	55	12.862	12.862	(1.109)	10006	40.0000	43.3120
97 1,1,2,2-Tetrachloroethane	83	12.960	12.960	(0.914)	12299	1.00000	1.05335
99 1,2,3-Trichloropropane	110	13.058	13.058	(0.921)	2590	1.00000	0.974334(aQ)
100 Bromobenzene	156	13.108	13.108	(0.924)	23915	1.00000	1.12236
101 n-Propylbenzene	120	13.098	13.098	(0.924)	38938	1.00000	1.14786
103 2-Chlorotoluene	126	13.265	13.265	(0.935)	31106	1.00000	1.12923
102 1,3,5-Trimethylbenzene	105	13.245	13.245	(0.934)	115392	1.00000	1.14129
104 4-Chlorotoluene	126	13.373	13.373	(0.943)	31361	1.00000	1.14842
105 tert-Butylbenzene	119	13.649	13.649	(0.963)	107838	1.00000	1.17894
106 1,2,4-Trimethylbenzene	105	13.698	13.698	(0.966)	112447	1.00000	1.14090
107 sec-Butylbenzene	134	13.895	13.895	(0.980)	27557	1.00000	1.15901
108 4-Isopropyltoluene	119	14.022	14.022	(0.989)	129599	1.00000	1.18291

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	14.121	14.121	(0.996)	49424	1.00000	1.15621
111 1,4-dichlorobenzene	146	14.209	14.209	(1.002)	44538	1.00000	1.12576
113 n-Butylbenzene	91	14.524	14.524	(1.024)	129753	1.00000	0.797501(a)
114 1,2-Dichlorobenzene	146	14.691	14.691	(1.036)	35442	1.00000	1.10904
115 1,2-Dibromo-3-chloropropane	157	15.705	15.705	(1.108)	733	1.00000	0.595999(aQ)
116 1,2,4-Trichlorobenzene	180	16.925	16.925	(1.194)	20003	1.00000	1.08523
117 Hexachlorobutadiene	225	17.111	17.111	(1.207)	17399	1.00000	1.20349
119 Naphthalene	128	17.387	17.387	(1.226)	24001	1.00000	1.07397
120 1,2,3-Trichlorobenzene	180	17.790	17.790	(1.255)	13523	1.00000	1.05059

QC Flag Legend

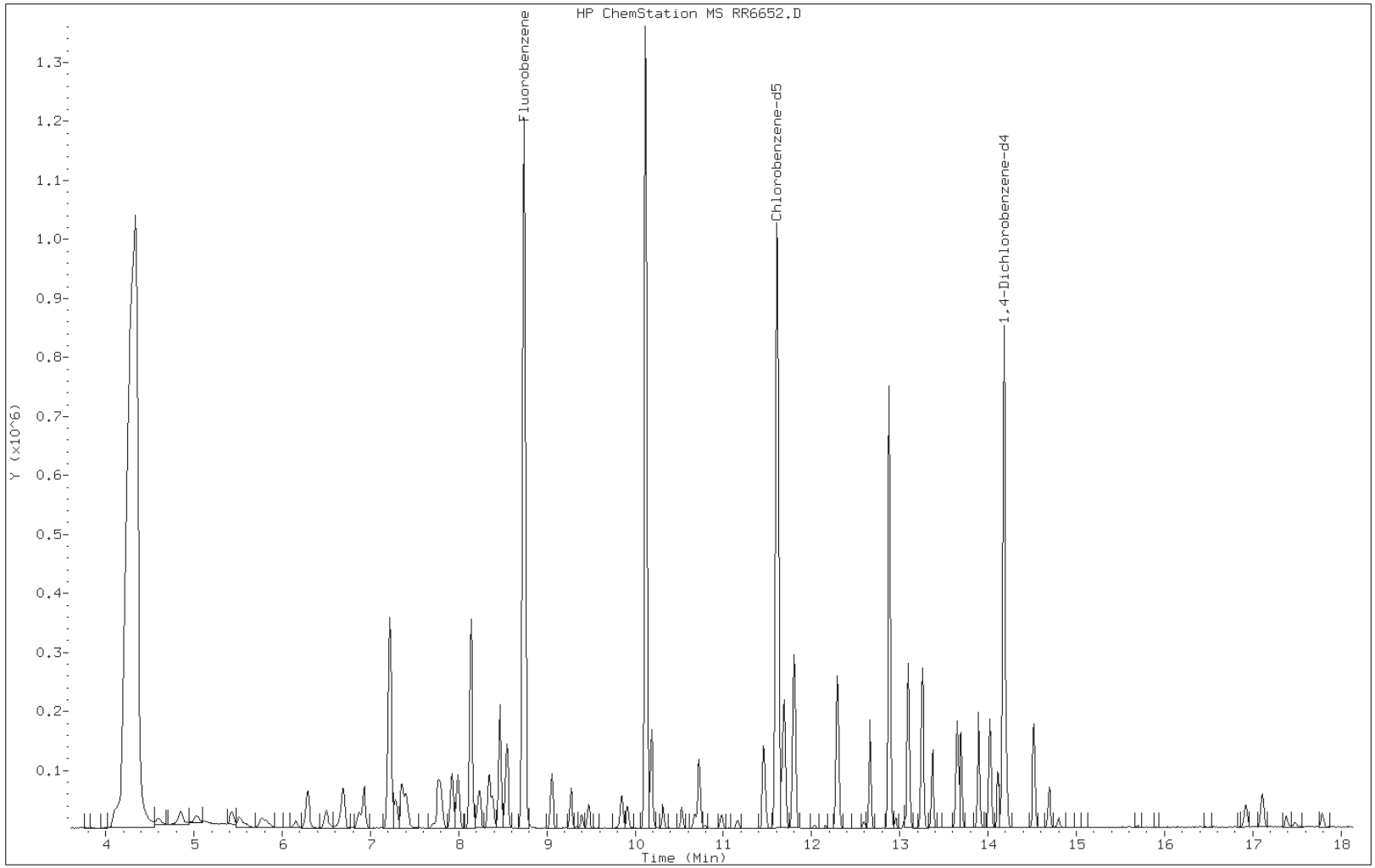
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: RR6652.D

Date: 27-JUN-2011 10:10

Client ID: Instrument: R2.i

Sample Info: IC,, M 1.0 5uL 10x Operator: DOBRANSKYM



Manual Integration Report

Data File: RR6652.D
Inj. Date and Time: 27-JUN-2011 10:10
Instrument ID: R2.i
Client ID:
Compound: 23 Acetonitrile
CAS #: 75-05-8
Report Date: 06/27/2011

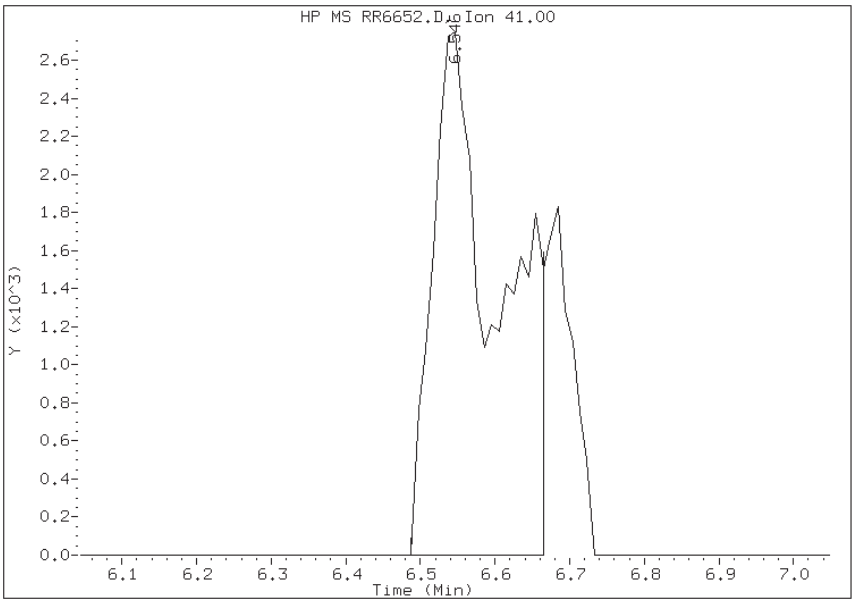
Processing Integration Results

RT: 6.55

Response: 17427

Amount: 16

Conc: 16



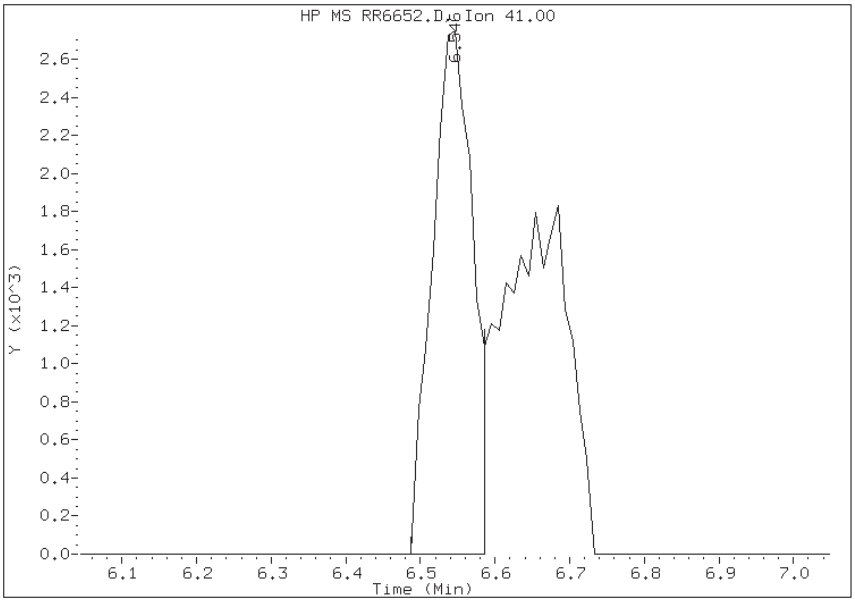
Manual Integration Results

RT: 6.55

Response: 10636

Amount: 11

Conc: 11



Manually Integrated By: dobranskym
Manual Integration Reason: Peak Tailing or Fronting

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\RR6653.D
Lab Smp Id: IC
Inj Date : 27-JUN-2011 10:33
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : IC,, M 2.0 10uL 10x
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\8260B-H2O.m
Meth Date : 27-Jun-2011 19:41 R2.i Quant Type: ISTD
Cal Date : 27-JUN-2011 13:52 Cal File: RR6662.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	59 Fluorobenzene	96	8.740	8.740	(1.000)	1251069	12.5000	
*	85 Chlorobenzene-d5	119	11.603	11.603	(1.000)	233317	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	14.180	14.180	(1.000)	242332	12.5000	
M	9 1,2-Dichloroethene (total)	96				140341	4.00000	4.28792
M	25 Trihalomethanes (total)	100				205709	8.00000	8.22561
M	26 1,3-Dichloropropene (total)	100				117767	4.00000	4.13308
M	10 Xylene (total)	106				314219	6.00000	6.65260
	1 dichlorodifluoromethane	85	4.598	4.598	(0.526)	44642	2.00000	1.77820(a)
	3 Chloromethane	50	4.854	4.854	(0.555)	78524	2.00000	1.92416(a)
	4 Vinyl Chloride	62	5.041	5.041	(0.577)	62359	2.00000	1.93358
	6 Bromomethane	94	5.435	5.435	(0.622)	49136	2.00000	2.08380
	7 Chloroethane	64	5.523	5.523	(0.632)	38782	2.00000	2.04397
	11 Trichlorofluoromethane	101	5.769	5.769	(0.660)	81416	2.00000	1.98829(a)
	12 Ethanol	45	5.818	5.818	(0.666)	11556	100.000	113.993(aM)
	18 Acrolein	56	6.162	6.162	(0.705)	34358	20.0000	20.5878
	19 Acetone	43	6.271	6.271	(0.717)	29136	8.00000	6.89484(a)
	21 1,1-Dichloroethene	96	6.290	6.290	(0.720)	64319	2.00000	2.13211
	22 Iodomethane	142	6.497	6.497	(0.743)	93626	2.00000	2.07074
	23 Acetonitrile	41	6.546	6.546	(0.749)	21343	20.0000	22.5086
	29 tert-Butyl alcohol	59	6.654	6.654	(0.761)	24717	40.0000	41.8019(a)
	30 Methylene Chloride	84	6.694	6.694	(0.766)	63671	2.00000	1.81352
	31 Acrylonitrile	53	6.881	6.881	(0.787)	61242	20.0000	20.6436

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
33 trans-1,2-Dichloroethene	96	6.930	6.930	(0.793)	71759	2.00000	2.14152
36 Isopropyl ether	87	7.215	7.215	(0.826)	167378	10.0000	10.5756
37 1,1-Dichloroethane	63	7.294	7.294	(0.835)	123463	2.00000	2.12444
38 Chloroprene	53	7.363	7.363	(0.842)	121228	2.00000	2.13922
41 2-Butanone	43	7.717	7.717	(0.883)	31758	8.00000	8.31157
43 cis-1,2-Dichloroethene	96	7.766	7.766	(0.889)	68582	2.00000	2.14640
42 Propionitrile	54	7.786	7.786	(0.891)	21925	20.0000	21.2702
44 2,2-Dichloropropane	77	7.805	7.805	(0.893)	84402	2.00000	2.19217(a)
45 Methacrylonitrile	41	7.923	7.923	(0.907)	127269	20.0000	21.5274
46 Bromochloromethane	128	7.992	7.992	(0.914)	21645	2.00000	2.06119
47 Chloroform	83	7.992	7.992	(0.914)	102181	2.00000	2.06580
51 1,1,1-Trichloroethane	97	8.238	8.238	(0.943)	92276	2.00000	2.09692
50 Isobutanol	41	8.219	8.219	(0.940)	10392	40.0000	43.7420(a)
53 1,1-Dichloropropene	75	8.346	8.346	(0.955)	98131	2.00000	2.19562
54 Carbon Tetrachloride	117	8.386	8.386	(0.959)	81591	2.00000	2.12718
56 1,2-Dichloroethane	62	8.533	8.533	(0.976)	46037	2.00000	2.06014
58 Benzene	78	8.553	8.553	(0.979)	239566	2.00000	2.04296
60 n-Butanol	56	8.769	8.769	(1.003)	23266	60.0000	81.0999
61 Trichloroethene	95	9.055	9.055	(1.036)	69532	2.00000	2.14034
65 1,2-Dichloropropane	63	9.271	9.271	(1.061)	57543	2.00000	2.13576
66 1,4-Dioxane	88	9.340	9.340	(1.069)	5089	100.000	79.7557(a)
67 Dibromomethane	93	9.399	9.399	(1.075)	21527	2.00000	2.08539
68 Bromodichloromethane	83	9.478	9.478	(1.084)	58407	2.00000	2.02640
71 cis-1,3-Dichloropropene	75	9.852	9.852	(1.127)	69523	2.00000	2.04260
72 4-Methyl-2-pentanone	43	9.920	9.920	(1.135)	68938	8.00000	8.33013
74 Toluene	91	10.186	10.186	(1.165)	254084	2.00000	2.16809
76 trans-1,3-Dichloropropene	75	10.314	10.314	(1.180)	48244	2.00000	2.09048
77 1,1,2-Trichloroethane	97	10.530	10.530	(1.205)	24769	2.00000	2.09170
78 2-Hexanone	43	10.678	10.678	(0.920)	51291	8.00000	9.09797
79 1,3-Dichloropropane	76	10.717	10.717	(0.924)	43319	2.00000	2.15783
80 Tetrachloroethene	164	10.727	10.727	(0.925)	47384	2.00000	2.18802
81 Dibromochloromethane	129	10.983	10.983	(0.947)	31796	2.00000	2.03429
83 1,2-Dibromoethane	107	11.160	11.160	(0.962)	26433	2.00000	2.17071
84 1-Chlorohexane	91	11.465	11.465	(0.988)	102696	2.00000	2.27591
86 Chlorobenzene	112	11.642	11.642	(1.003)	147388	2.00000	2.09336
87 1,1,1,2-Tetrachloroethane	131	11.691	11.691	(1.008)	42155	2.00000	2.09945
88 Ethylbenzene	106	11.691	11.691	(1.008)	87318	2.00000	2.23094
89 m and p-Xylene	106	11.799	11.799	(1.017)	217267	4.00000	4.43745
90 o-Xylene	106	12.291	12.291	(1.059)	96952	2.00000	2.21516
91 Styrene	104	12.301	12.301	(1.060)	138595	2.00000	2.16602
92 Bromoform	173	12.596	12.596	(1.086)	13325	2.00000	2.09912
93 isopropyl benzene	105	12.665	12.665	(0.893)	265034	2.00000	2.25759
95 Cyclohexanone	55	12.862	12.862	(1.109)	18962	80.0000	83.7827
97 1,1,2,2-Tetrachloroethane	83	12.960	12.960	(0.914)	23768	2.00000	2.08642
99 1,2,3-Trichloropropane	110	13.059	13.059	(0.921)	5663	2.00000	2.18353(Q)
100 Bromobenzene	156	13.108	13.108	(0.924)	44754	2.00000	2.15276
101 n-Propylbenzene	120	13.098	13.098	(0.924)	73937	2.00000	2.23400
103 2-Chlorotoluene	126	13.265	13.265	(0.935)	58574	2.00000	2.17945
102 1,3,5-Trimethylbenzene	105	13.246	13.246	(0.934)	219956	2.00000	2.22977
104 4-Chlorotoluene	126	13.373	13.373	(0.943)	58154	2.00000	2.18270
105 tert-Butylbenzene	119	13.649	13.649	(0.963)	200584	2.00000	2.24761
106 1,2,4-Trimethylbenzene	105	13.698	13.698	(0.966)	211127	2.00000	2.19558
107 sec-Butylbenzene	134	13.895	13.895	(0.980)	52810	2.00000	2.27654
108 4-Isopropyltoluene	119	14.023	14.023	(0.989)	237843	2.00000	2.22507

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	14.121	14.121	(0.996)	93210	2.00000	2.23493
111 1,4-dichlorobenzene	146	14.210	14.210	(1.002)	84483	2.00000	2.18872
113 n-Butylbenzene	91	14.524	14.524	(1.024)	239761	2.00000	2.08780
114 1,2-Dichlorobenzene	146	14.692	14.692	(1.036)	67372	2.00000	2.16079
115 1,2-Dibromo-3-chloropropane	157	15.705	15.705	(1.108)	2176	2.00000	1.81344(aQ)
116 1,2,4-Trichlorobenzene	180	16.925	16.925	(1.194)	38780	2.00000	2.15645
117 Hexachlorobutadiene	225	17.112	17.112	(1.207)	32091	2.00000	2.27512
119 Naphthalene	128	17.387	17.387	(1.226)	46834	2.00000	2.14798
120 1,2,3-Trichlorobenzene	180	17.790	17.790	(1.255)	27710	2.00000	2.20649

QC Flag Legend

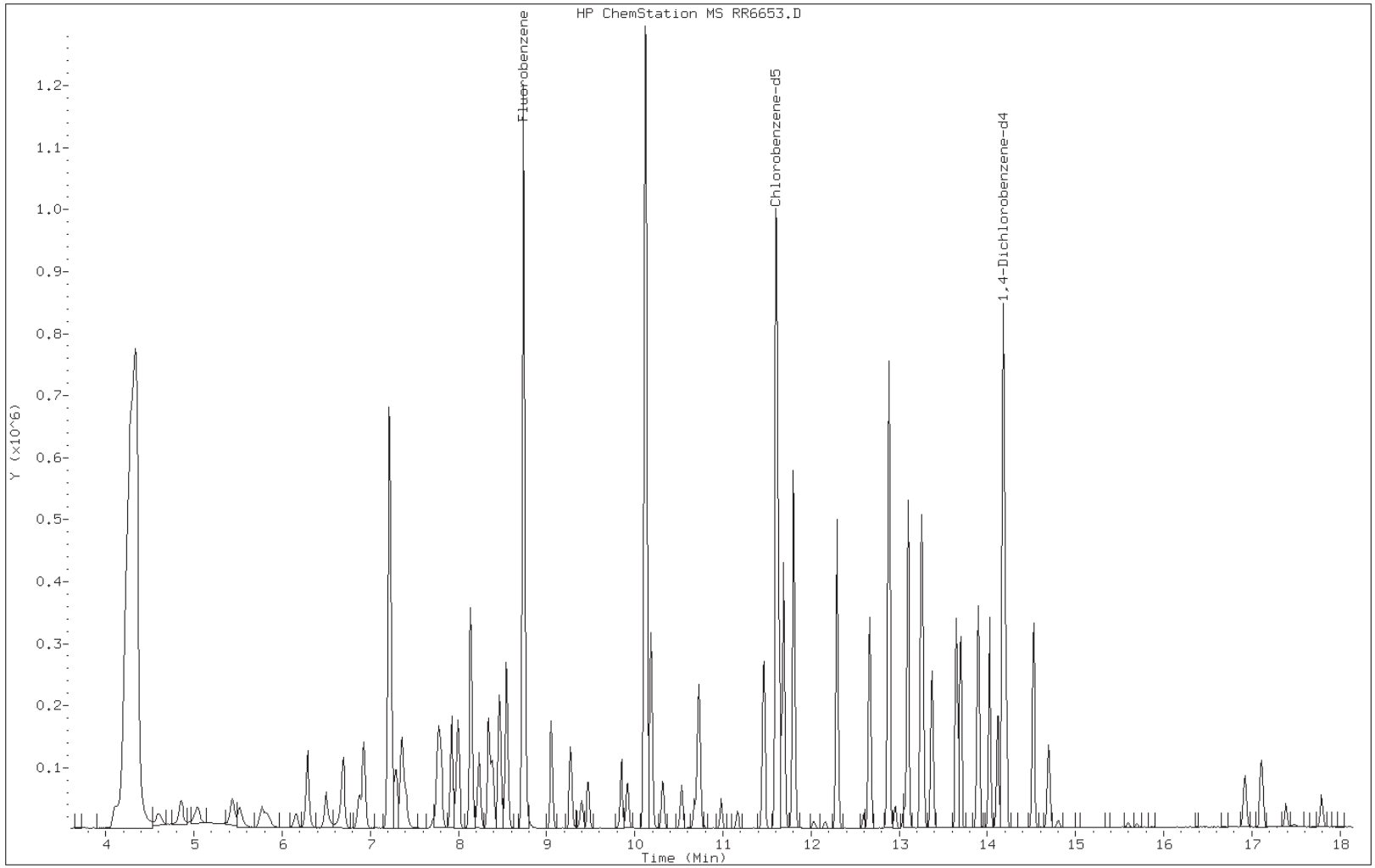
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: RR6653.D

Date: 27-JUN-2011 10:33

Client ID: Instrument: R2.i

Sample Info: IC,, M 2.0 10uL 10x Operator: DOBRANSKYM



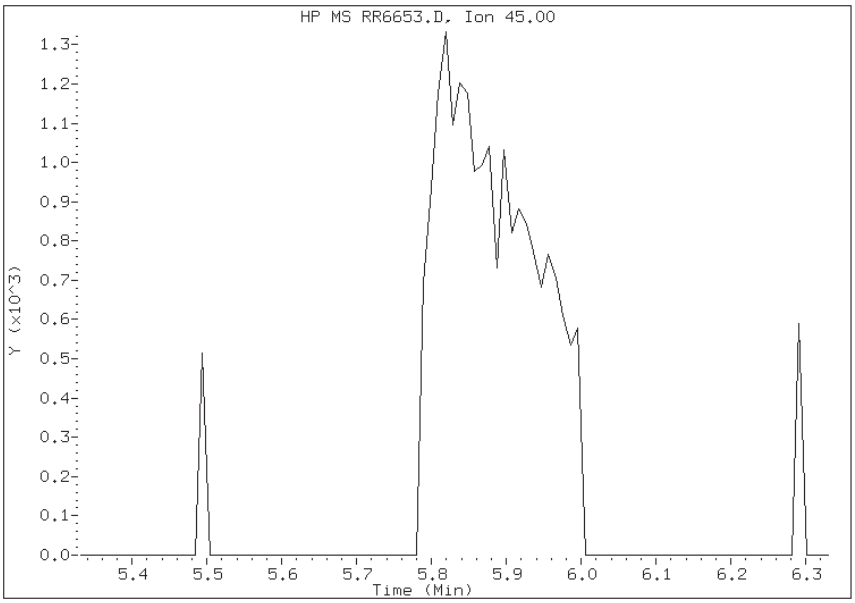
Manual Integration Report

Data File: RR6653.D
Inj. Date and Time: 27-JUN-2011 10:33
Instrument ID: R2.i
Client ID:
Compound: 12 Ethanol
CAS #: 64-17-5
Report Date: 06/27/2011

Processing Integration Results

Not Detected

Expected RT: 5.83



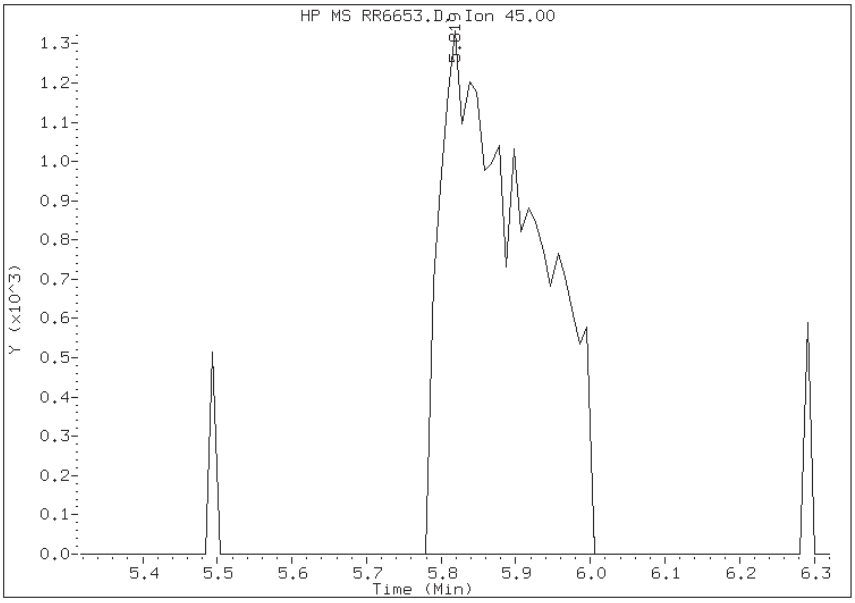
Manual Integration Results

RT: 5.82

Response: 11556

Amount: 114

Conc: 114



Manually Integrated By: dobranskym
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\RR6654.D
Lab Smp Id: IC
Inj Date : 27-JUN-2011 10:55
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : IC,, M 5.0 2.5uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\8260B-H2O.m
Meth Date : 27-Jun-2011 19:41 R2.i Quant Type: ISTD
Cal Date : 27-JUN-2011 14:15 Cal File: RR6663.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	8.742	8.742	(1.000)	1284393	12.5000	
* 85	Chlorobenzene-d5	119	11.605	11.605	(1.000)	241877	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	14.182	14.182	(1.000)	242162	12.5000	
M 9	1,2-Dichloroethene (total)	96				341463	10.0000	10.1625
M 25	Trihalomethanes (total)	100				519203	20.0000	20.2730
M 26	1,3-Dichloropropene (total)	100				291424	10.0000	9.94919
M 10	Xylene (total)	106				751987	15.0000	15.3533
1	dichlorodifluoromethane	85	4.611	4.611	(0.527)	147001	5.00000	5.70350
3	Chloromethane	50	4.866	4.866	(0.557)	226661	5.00000	5.41003
4	Vinyl Chloride	62	5.043	5.043	(0.577)	177167	5.00000	5.35094
6	Bromomethane	94	5.447	5.447	(0.623)	133485	5.00000	5.51406
7	Chloroethane	64	5.525	5.525	(0.632)	106149	5.00000	5.44934
11	Trichlorofluoromethane	101	5.771	5.771	(0.660)	222070	5.00000	5.28256
12	Ethanol	45	5.830	5.830	(0.667)	26754	250.000	257.066
18	Acrolein	56	6.155	6.155	(0.704)	84273	50.0000	49.1873
19	Acetone	43	6.273	6.273	(0.718)	62501	20.0000	21.7864
21	1,1-Dichloroethene	96	6.293	6.293	(0.720)	161396	5.00000	5.21130
22	Iodomethane	142	6.499	6.499	(0.743)	238082	5.00000	5.12908
23	Acetonitrile	41	6.539	6.539	(0.748)	48112	50.0000	49.4231
29	tert-Butyl alcohol	59	6.647	6.647	(0.760)	63469	100.000	104.555(Q)
30	Methylene Chloride	84	6.696	6.696	(0.766)	148080	5.00000	5.24330
31	Acrylonitrile	53	6.873	6.873	(0.786)	157373	50.0000	51.6713

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.932	6.932	(0.793)	174386	5.00000	5.06923
36 Isopropyl ether	87	7.217	7.217	(0.826)	429995	25.0000	26.4639
37 1,1-Dichloroethane	63	7.286	7.286	(0.833)	305879	5.00000	5.12673
38 Chloroprene	53	7.355	7.355	(0.841)	298165	5.00000	5.12499
41 2-Butanone	43	7.709	7.709	(0.882)	82356	20.0000	20.9946
43 cis-1,2-Dichloroethene	96	7.768	7.768	(0.889)	167077	5.00000	5.09330
42 Propionitrile	54	7.798	7.798	(0.892)	53972	50.0000	51.0017
44 2,2-Dichloropropane	77	7.798	7.798	(0.892)	199760	5.00000	5.05374
45 Methacrylonitrile	41	7.926	7.926	(0.907)	309977	50.0000	51.0718
46 Bromochloromethane	128	7.995	7.995	(0.914)	54965	5.00000	5.09835
47 Chloroform	83	7.995	7.995	(0.914)	252551	5.00000	4.97338
51 1,1,1-Trichloroethane	97	8.241	8.241	(0.943)	227360	5.00000	5.03257
50 Isobutanol	41	8.221	8.221	(0.940)	25874	100.000	106.083(Q)
53 1,1-Dichloropropene	75	8.339	8.339	(0.954)	233907	5.00000	5.09774
54 Carbon Tetrachloride	117	8.388	8.388	(0.959)	200804	5.00000	5.09937
56 1,2-Dichloroethane	62	8.536	8.536	(0.976)	115603	5.00000	5.03897
58 Benzene	78	8.546	8.546	(0.977)	600980	5.00000	4.99203
60 n-Butanol	56	8.772	8.772	(1.003)	38014	150.000	155.779
61 Trichloroethene	95	9.057	9.057	(1.036)	171100	5.00000	5.13018
65 1,2-Dichloropropane	63	9.273	9.273	(1.061)	142064	5.00000	5.13603
66 1,4-Dioxane	88	9.342	9.342	(1.069)	17179	250.000	262.247
67 Dibromomethane	93	9.401	9.401	(1.075)	54223	5.00000	5.11647
68 Bromodichloromethane	83	9.470	9.470	(1.083)	149530	5.00000	5.05327
71 cis-1,3-Dichloropropene	75	9.854	9.854	(1.127)	173004	5.00000	4.95102
72 4-Methyl-2-pentanone	43	9.913	9.913	(1.134)	177922	20.0000	20.9414
74 Toluene	91	10.188	10.188	(1.165)	604090	5.00000	5.02095
76 trans-1,3-Dichloropropene	75	10.316	10.316	(1.180)	118420	5.00000	4.99817
77 1,1,2-Trichloroethane	97	10.533	10.533	(1.205)	62392	5.00000	5.13220
78 2-Hexanone	43	10.680	10.680	(0.920)	119925	20.0000	20.5194
79 1,3-Dichloropropane	76	10.720	10.720	(0.924)	108808	5.00000	5.22820
80 Tetrachloroethene	164	10.729	10.729	(0.925)	113304	5.00000	5.04681
81 Dibromochloromethane	129	10.985	10.985	(0.947)	83677	5.00000	5.16415
83 1,2-Dibromoethane	107	11.162	11.162	(0.962)	64871	5.00000	5.13874
84 1-Chlorohexane	91	11.457	11.457	(0.987)	241580	5.00000	5.16433
86 Chlorobenzene	112	11.644	11.644	(1.003)	356574	5.00000	4.88521
87 1,1,1,2-Tetrachloroethane	131	11.694	11.694	(1.008)	104801	5.00000	5.03470
88 Ethylbenzene	106	11.684	11.684	(1.007)	207008	5.00000	5.10181
89 m and p-Xylene	106	11.802	11.802	(1.017)	521765	10.0000	10.2794
90 o-Xylene	106	12.294	12.294	(1.059)	230222	5.00000	5.07395
91 Styrene	104	12.294	12.294	(1.059)	339126	5.00000	5.11244
92 Bromoform	173	12.599	12.599	(1.086)	33445	5.00000	5.08220
93 isopropyl benzene	105	12.667	12.667	(0.893)	608290	5.00000	5.18513
95 Cyclohexanone	55	12.864	12.864	(1.108)	48552	200.000	206.933
97 1,1,2,2-Tetrachloroethane	83	12.953	12.953	(0.913)	61275	5.00000	5.38265
99 1,2,3-Trichloropropane	110	13.061	13.061	(0.921)	14087	5.00000	5.43545(Q)
100 Bromobenzene	156	13.110	13.110	(0.924)	108589	5.00000	5.22703
101 n-Propylbenzene	120	13.100	13.100	(0.924)	173518	5.00000	5.24651
103 2-Chlorotoluene	126	13.268	13.268	(0.935)	142650	5.00000	5.31151
102 1,3,5-Trimethylbenzene	105	13.248	13.248	(0.934)	515204	5.00000	5.22647
104 4-Chlorotoluene	126	13.376	13.376	(0.943)	135455	5.00000	5.08763
105 tert-Butylbenzene	119	13.651	13.651	(0.963)	447972	5.00000	5.02320
106 1,2,4-Trimethylbenzene	105	13.691	13.691	(0.965)	498975	5.00000	5.19264
107 sec-Butylbenzene	134	13.897	13.897	(0.980)	120195	5.00000	5.18502
108 4-Isopropyltoluene	119	14.025	14.025	(0.989)	551843	5.00000	5.16623

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	14.114	14.114	(0.995)	211994	5.00000	5.08663
111 1,4-dichlorobenzene	146	14.212	14.212	(1.002)	195323	5.00000	5.06382
113 n-Butylbenzene	91	14.517	14.517	(1.024)	527280	5.00000	5.37025
114 1,2-Dichlorobenzene	146	14.694	14.694	(1.036)	163760	5.00000	5.25588
115 1,2-Dibromo-3-chloropropane	157	15.707	15.707	(1.108)	6212	5.00000	5.18062
116 1,2,4-Trichlorobenzene	180	16.927	16.927	(1.194)	91642	5.00000	5.09954
117 Hexachlorobutadiene	225	17.114	17.114	(1.207)	68906	5.00000	4.88858
119 Naphthalene	128	17.389	17.389	(1.226)	110684	5.00000	5.07994
120 1,2,3-Trichlorobenzene	180	17.793	17.793	(1.255)	63582	5.00000	5.06645

QC Flag Legend

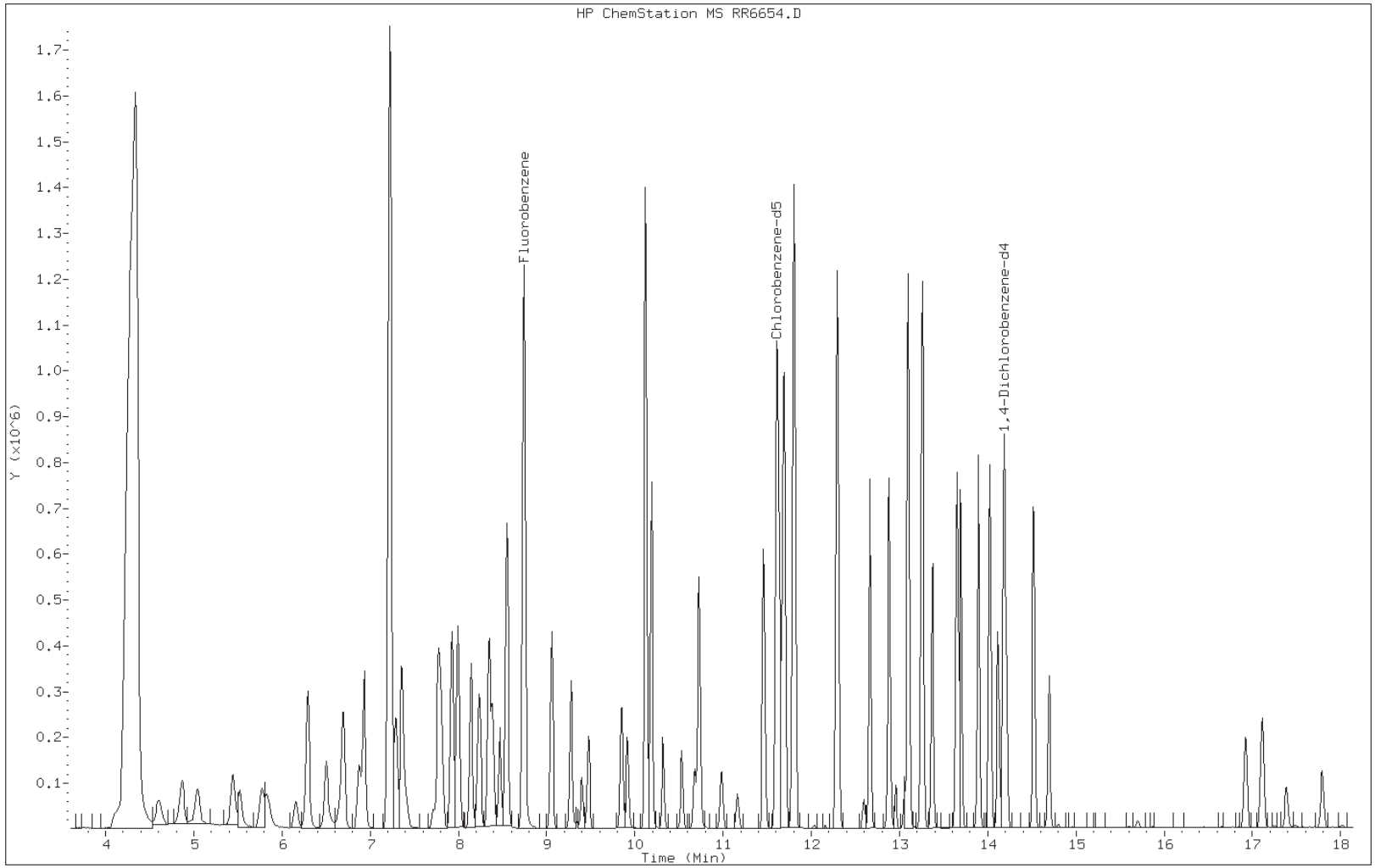
Q - Qualifier signal failed the ratio test.

Data File: RR6654.D

Date: 27-JUN-2011 10:55

Client ID: Instrument: R2.i

Sample Info: IC,, M 5.0 2.5uL Operator: DOBRANSKYM



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\RR6655.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 27-JUN-2011 11:17
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : IC,, M 10.0 5uL
Misc Info :
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Meth Date : 27-Jun-2011 19:42 R2.i Quant Type: ISTD
Cal Date : 27-JUN-2011 14:37 Cal File: RR6664.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	8.738	8.738	(1.000)	1220042	12.5000	
* 85 Chlorobenzene-d5	119	11.610	11.610	(1.000)	228689	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	14.178	14.178	(1.000)	236065	12.5000	
M 9 1,2-Dichloroethene (total)	96				615161	20.0000	19.2750
M 25 Trihalomethanes (total)	100				913966	40.0000	37.9636
M 26 1,3-Dichloropropene (total)	100				514720	20.0000	18.4846
M 10 Xylene (total)	106				1340140	30.0000	28.9502
1 dichlorodifluoromethane	85	4.596	4.596	(0.526)	262412	10.0000	10.7183
3 Chloromethane	50	4.871	4.871	(0.558)	392483	10.0000	9.86204
4 Vinyl Chloride	62	5.039	5.039	(0.577)	320983	10.0000	10.2059
6 Bromomethane	94	5.442	5.442	(0.623)	229227	10.0000	9.96845
7 Chloroethane	64	5.521	5.521	(0.632)	193241	10.0000	10.4436
11 Trichlorofluoromethane	101	5.767	5.767	(0.660)	388487	10.0000	9.72868
12 Ethanol	45	5.816	5.816	(0.666)	47673	500.000	482.226
18 Acrolein	56	6.150	6.150	(0.704)	164651	100.000	101.170
19 Acetone	43	6.268	6.268	(0.717)	98658	40.0000	40.6863
21 1,1-Dichloroethene	96	6.288	6.288	(0.720)	282860	10.0000	9.61498
22 Iodomethane	142	6.495	6.495	(0.743)	432904	10.0000	9.81810
23 Acetonitrile	41	6.534	6.534	(0.748)	81459	100.000	88.0925
29 tert-Butyl alcohol	59	6.652	6.652	(0.761)	111320	200.000	193.054
30 Methylene Chloride	84	6.691	6.691	(0.766)	253800	10.0000	10.1822
31 Acrylonitrile	53	6.869	6.869	(0.786)	280220	100.000	96.8593

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33	trans-1,2-Dichloroethene	96	6.928	6.928	(0.793)	313452	10.0000	9.59233
36	Isopropyl ether	87	7.223	7.223	(0.827)	758519	50.0000	49.1451
37	1,1-Dichloroethane	63	7.292	7.292	(0.835)	543159	10.0000	9.58388
38	Chloroprene	53	7.360	7.360	(0.842)	528518	10.0000	9.56355
41	2-Butanone	43	7.715	7.715	(0.883)	141189	40.0000	37.8911
43	cis-1,2-Dichloroethene	96	7.764	7.764	(0.889)	301709	10.0000	9.68265
42	Propionitrile	54	7.793	7.793	(0.892)	97194	100.000	96.6894
44	2,2-Dichloropropane	77	7.803	7.803	(0.893)	356753	10.0000	9.50156
45	Methacrylonitrile	41	7.921	7.921	(0.907)	546611	100.000	94.8098
46	Bromochloromethane	128	7.990	7.990	(0.914)	97358	10.0000	9.50689
47	Chloroform	83	8.000	8.000	(0.916)	448440	10.0000	9.29672
51	1,1,1-Trichloroethane	97	8.236	8.236	(0.943)	408833	10.0000	9.52675
50	Isobutanol	41	8.216	8.216	(0.940)	44552	200.000	192.297
53	1,1-Dichloropropene	75	8.344	8.344	(0.955)	412917	10.0000	9.47371
54	Carbon Tetrachloride	117	8.383	8.383	(0.959)	355455	10.0000	9.50281
56	1,2-Dichloroethane	62	8.531	8.531	(0.976)	201021	10.0000	9.22439
58	Benzene	78	8.551	8.551	(0.979)	1060085	10.0000	9.27002
60	n-Butanol	56	8.767	8.767	(1.003)	61714	300.000	298.258
61	Trichloroethene	95	9.052	9.052	(1.036)	300089	10.0000	9.47230
65	1,2-Dichloropropane	63	9.279	9.279	(1.062)	242996	10.0000	9.24838
66	1,4-Dioxane	88	9.338	9.338	(1.069)	32319	500.000	519.390
67	Dibromomethane	93	9.397	9.397	(1.075)	94449	10.0000	9.38226
68	Bromodichloromethane	83	9.475	9.475	(1.084)	255333	10.0000	9.08394
71	cis-1,3-Dichloropropene	75	9.849	9.849	(1.127)	306597	10.0000	9.23697
72	4-Methyl-2-pentanone	43	9.918	9.918	(1.135)	311880	40.0000	38.6444
74	Toluene	91	10.184	10.184	(1.165)	1079004	10.0000	9.44126
76	trans-1,3-Dichloropropene	75	10.321	10.321	(1.181)	208123	10.0000	9.24760
77	1,1,2-Trichloroethane	97	10.528	10.528	(1.205)	110922	10.0000	9.60541
78	2-Hexanone	43	10.676	10.676	(0.920)	213379	40.0000	38.6150
79	1,3-Dichloropropane	76	10.715	10.715	(0.923)	190995	10.0000	9.70649
80	Tetrachloroethene	164	10.735	10.735	(0.925)	203657	10.0000	9.59445
81	Dibromochloromethane	129	10.981	10.981	(0.946)	148768	10.0000	9.71072
83	1,2-Dibromoethane	107	11.168	11.168	(0.962)	115423	10.0000	9.67048
84	1-Chlorohexane	91	11.463	11.463	(0.987)	426068	10.0000	9.63344
86	Chlorobenzene	112	11.640	11.640	(1.003)	641429	10.0000	9.29461
87	1,1,1,2-Tetrachloroethane	131	11.699	11.699	(1.008)	187219	10.0000	9.51279
88	Ethylbenzene	106	11.689	11.689	(1.007)	368266	10.0000	9.59948
89	m and p-Xylene	106	11.807	11.807	(1.017)	925536	20.0000	19.2856
90	o-Xylene	106	12.299	12.299	(1.059)	414604	10.0000	9.66456
91	Styrene	104	12.299	12.299	(1.059)	611228	10.0000	9.74585
92	Bromoform	173	12.594	12.594	(1.085)	61425	10.0000	9.87223
93	isopropyl benzene	105	12.663	12.663	(0.893)	1090017	10.0000	9.53139
95	Cyclohexanone	55	12.869	12.869	(1.108)	83559	400.000	376.673
97	1,1,2,2-Tetrachloroethane	83	12.958	12.958	(0.914)	105863	10.0000	9.53963
99	1,2,3-Trichloropropane	110	13.056	13.056	(0.921)	24452	10.0000	9.67844(Q)
100	Bromobenzene	156	13.105	13.105	(0.924)	194606	10.0000	9.60948
101	n-Propylbenzene	120	13.096	13.096	(0.924)	308663	10.0000	9.57381
103	2-Chlorotoluene	126	13.263	13.263	(0.935)	253163	10.0000	9.66988
102	1,3,5-Trimethylbenzene	105	13.253	13.253	(0.935)	930181	10.0000	9.67990
104	4-Chlorotoluene	126	13.371	13.371	(0.943)	250400	10.0000	9.64781
105	tert-Butylbenzene	119	13.647	13.647	(0.963)	829175	10.0000	9.53784
106	1,2,4-Trimethylbenzene	105	13.696	13.696	(0.966)	893850	10.0000	9.54220
107	sec-Butylbenzene	134	13.893	13.893	(0.980)	215748	10.0000	9.54740
108	4-Isopropyltoluene	119	14.030	14.030	(0.990)	980959	10.0000	9.42070

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	14.119	14.119	(0.996)	384543	10.0000	9.46512
111 1,4-dichlorobenzene	146	14.217	14.217	(1.003)	359193	10.0000	9.55272
113 n-Butylbenzene	91	14.522	14.522	(1.024)	978254	10.0000	10.8040
114 1,2-Dichlorobenzene	146	14.699	14.699	(1.037)	291457	10.0000	9.59592
115 1,2-Dibromo-3-chloropropane	157	15.703	15.703	(1.108)	11642	10.0000	9.95984
116 1,2,4-Trichlorobenzene	180	16.922	16.922	(1.194)	167644	10.0000	9.56972
117 Hexachlorobutadiene	225	17.109	17.109	(1.207)	130464	10.0000	9.49492
119 Naphthalene	128	17.385	17.385	(1.226)	200367	10.0000	9.43353
120 1,2,3-Trichlorobenzene	180	17.788	17.788	(1.255)	117367	10.0000	9.59379

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: RR6655.D

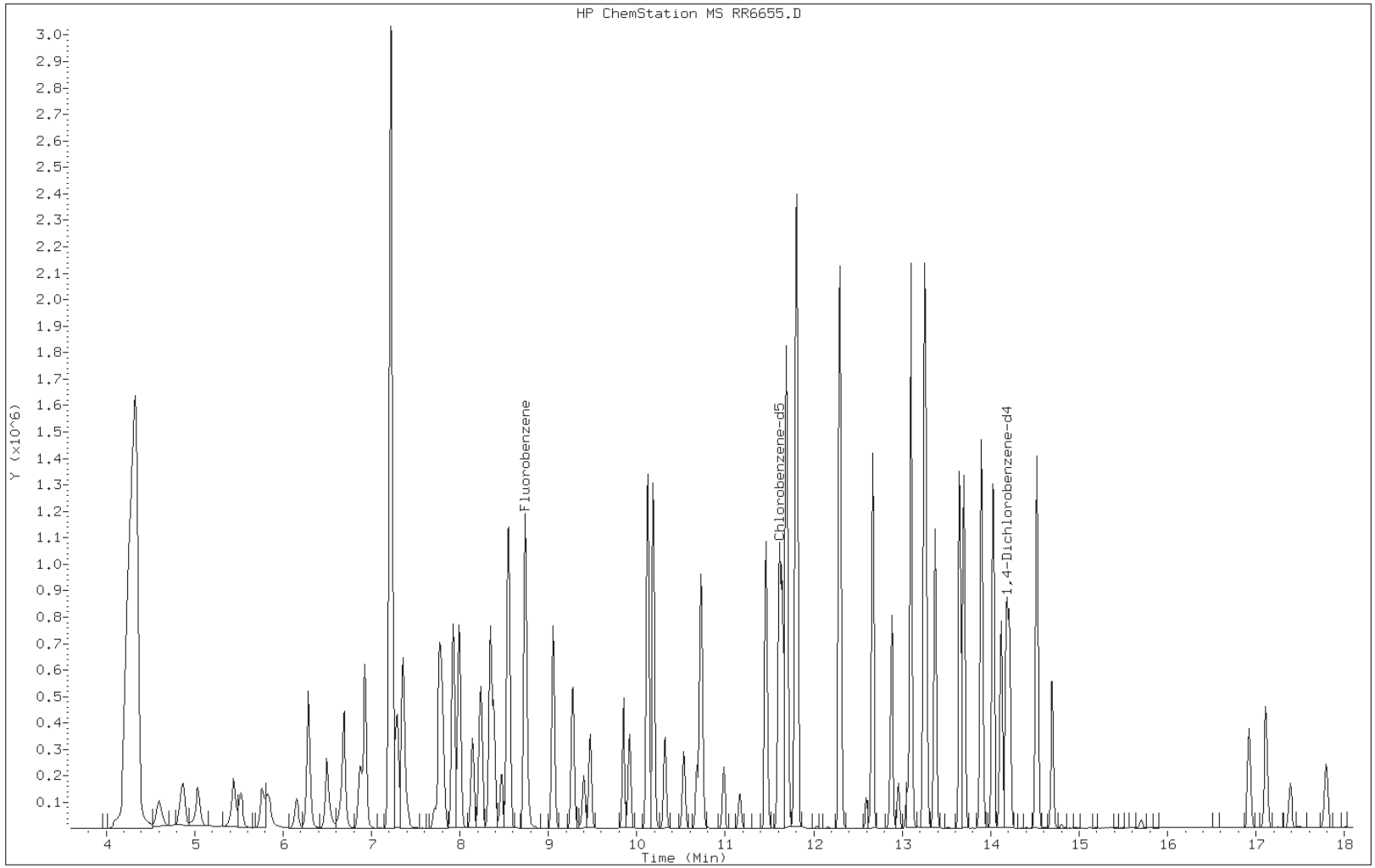
Date: 27-JUN-2011 11:17

Client ID: IC

Instrument: R2.i

Sample Info: IC,, M 10.0 5uL

Operator: DOBRANSKYM



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\RR6656.D
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Inj Date : 27-JUN-2011 11:39
Operator : DOBRANSKYM Inst ID: R2.i
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Meth Date : 27-Jun-2011 19:42 R2.i Quant Type: ISTD
Cal Date : 27-JUN-2011 15:00 Cal File: RR6665.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	8.743	8.743	(1.000)	1198286	12.5000	
* 85	Chlorobenzene-d5	119	11.606	11.606	(1.000)	230392	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	14.183	14.183	(1.000)	243779	12.5000	
M 9	1,2-Dichloroethene (total)	96				1729990	60.0000	55.1676
M 25	Trihalomethanes (total)	100				2656623	120.000	111.965
M 26	1,3-Dichloropropene (total)	100				1499865	60.0000	54.9139
M 10	Xylene (total)	106				3836539	90.0000	82.2345
1	dichlorodifluoromethane	85	4.611	4.611	(0.527)	748124	30.0000	31.1123
3	Chloromethane	50	4.887	4.887	(0.559)	1122303	30.0000	28.7124
4	Vinyl Chloride	62	5.044	5.044	(0.577)	935430	30.0000	30.2828
6	Bromomethane	94	5.457	5.457	(0.624)	638834	30.0000	28.2855
7	Chloroethane	64	5.526	5.526	(0.632)	526583	30.0000	28.9756
11	Trichlorofluoromethane	101	5.772	5.772	(0.660)	1131231	30.0000	28.8432
12	Ethanol	45	5.831	5.831	(0.667)	137904	1500.00	1420.26
18	Acrolein	56	6.156	6.156	(0.704)	469363	300.000	293.637
19	Acetone	43	6.274	6.274	(0.718)	258543	120.000	119.858
21	1,1-Dichloroethene	96	6.293	6.293	(0.720)	791233	30.0000	27.3839
22	Iodomethane	142	6.500	6.500	(0.743)	1247769	30.0000	28.8127
23	Acetonitrile	41	6.539	6.539	(0.748)	243234	300.000	267.817
29	tert-Butyl alcohol	59	6.648	6.648	(0.760)	320888	600.000	566.597
30	Methylene Chloride	84	6.697	6.697	(0.766)	697740	30.0000	30.1146
31	Acrylonitrile	53	6.874	6.874	(0.786)	805361	300.000	283.431

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33	trans-1,2-Dichloroethene	96	6.933	6.933	(0.793)	896474	30.0000	27.9322
36	Isopropyl ether	87	7.218	7.218	(0.826)	2103067	150.000	138.733
37	1,1-Dichloroethane	63	7.287	7.287	(0.833)	1556419	30.0000	27.9612
38	Chloroprene	53	7.356	7.356	(0.841)	1524225	30.0000	28.0817
41	2-Butanone	43	7.710	7.710	(0.882)	397016	120.000	108.482
43	cis-1,2-Dichloroethene	96	7.769	7.769	(0.889)	833516	30.0000	27.2354
42	Propionitrile	54	7.799	7.799	(0.892)	269394	300.000	272.861
44	2,2-Dichloropropane	77	7.799	7.799	(0.892)	996694	30.0000	27.0273
45	Methacrylonitrile	41	7.926	7.926	(0.907)	1585883	300.000	280.066
46	Bromochloromethane	128	7.995	7.995	(0.914)	283859	30.0000	28.2217
47	Chloroform	83	7.995	7.995	(0.914)	1269332	30.0000	26.7926
51	1,1,1-Trichloroethane	97	8.241	8.241	(0.943)	1190122	30.0000	28.2361
50	Isobutanol	41	8.222	8.222	(0.940)	129776	600.000	570.315
53	1,1-Dichloropropene	75	8.340	8.340	(0.954)	1175735	30.0000	27.4651
54	Carbon Tetrachloride	117	8.389	8.389	(0.959)	1038774	30.0000	28.2750
56	1,2-Dichloroethane	62	8.536	8.536	(0.976)	576460	30.0000	26.9327
58	Benzene	78	8.546	8.546	(0.977)	3034457	30.0000	27.0169
60	n-Butanol	56	8.772	8.772	(1.003)	156595	900.000	842.052
61	Trichloroethene	95	9.058	9.058	(1.036)	857079	30.0000	27.5449
65	1,2-Dichloropropane	63	9.274	9.274	(1.061)	724404	30.0000	28.0712
66	1,4-Dioxane	88	9.333	9.333	(1.068)	96172	1500.00	1573.62
67	Dibromomethane	93	9.402	9.402	(1.075)	276769	30.0000	27.9925
68	Bromodichloromethane	83	9.471	9.471	(1.083)	766936	30.0000	27.7806
71	cis-1,3-Dichloropropene	75	9.855	9.855	(1.127)	888396	30.0000	27.2510
72	4-Methyl-2-pentanone	43	9.914	9.914	(1.134)	901853	120.000	113.776
74	Toluene	91	10.189	10.189	(1.165)	3123802	30.0000	27.8295
76	trans-1,3-Dichloropropene	75	10.317	10.317	(1.180)	611469	30.0000	27.6629
77	1,1,2-Trichloroethane	97	10.533	10.533	(1.205)	316630	30.0000	27.9167
78	2-Hexanone	43	10.671	10.671	(0.919)	609790	120.000	109.537
79	1,3-Dichloropropane	76	10.720	10.720	(0.924)	547080	30.0000	27.5974
80	Tetrachloroethene	164	10.730	10.730	(0.925)	584597	30.0000	27.3373
81	Dibromochloromethane	129	10.986	10.986	(0.947)	438829	30.0000	28.4325
83	1,2-Dibromoethane	107	11.163	11.163	(0.962)	330861	30.0000	27.5156
84	1-Chlorohexane	91	11.458	11.458	(0.987)	1185087	30.0000	26.5969
86	Chlorobenzene	112	11.645	11.645	(1.003)	1836310	30.0000	26.4123
87	1,1,1,2-Tetrachloroethane	131	11.694	11.694	(1.008)	550603	30.0000	27.7699
88	Ethylbenzene	106	11.694	11.694	(1.008)	1071414	30.0000	27.7218
89	m and p-Xylene	106	11.802	11.802	(1.017)	2662319	60.0000	55.0654
90	o-Xylene	106	12.294	12.294	(1.059)	1174220	30.0000	27.1691
91	Styrene	104	12.294	12.294	(1.059)	1772250	30.0000	28.0491
92	Bromoform	173	12.599	12.599	(1.086)	181526	30.0000	28.9592
93	isopropyl benzene	105	12.668	12.668	(0.893)	3033009	30.0000	25.6822
95	Cyclohexanone	55	12.865	12.865	(1.108)	252427	1200.00	1129.50
97	1,1,2,2-Tetrachloroethane	83	12.953	12.953	(0.913)	310229	30.0000	27.0710
99	1,2,3-Trichloropropane	110	13.062	13.062	(0.921)	70693	30.0000	27.0959(Q)
100	Bromobenzene	156	13.111	13.111	(0.924)	560788	30.0000	26.8150
101	n-Propylbenzene	120	13.101	13.101	(0.924)	890236	30.0000	26.7387
103	2-Chlorotoluene	126	13.268	13.268	(0.935)	710637	30.0000	26.2848
102	1,3,5-Trimethylbenzene	105	13.249	13.249	(0.934)	2606770	30.0000	26.2689
104	4-Chlorotoluene	126	13.376	13.376	(0.943)	720260	30.0000	26.8732
105	tert-Butylbenzene	119	13.652	13.652	(0.963)	2425903	30.0000	27.0217
106	1,2,4-Trimethylbenzene	105	13.691	13.691	(0.965)	2615550	30.0000	27.0385(Q)
107	sec-Butylbenzene	134	13.898	13.898	(0.980)	613276	30.0000	26.2803
108	4-Isopropyltoluene	119	14.026	14.026	(0.989)	2878442	30.0000	26.7686

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	14.114	14.114	(0.995)	1130531	30.0000	26.9463
111 1,4-dichlorobenzene	146	14.213	14.213	(1.002)	1070723	30.0000	27.5747
113 n-Butylbenzene	91	14.527	14.527	(1.024)	2854769	30.0000	31.7103
114 1,2-Dichlorobenzene	146	14.695	14.695	(1.036)	849896	30.0000	27.0965
115 1,2-Dibromo-3-chloropropane	157	15.698	15.698	(1.107)	36470	30.0000	30.2131
116 1,2,4-Trichlorobenzene	180	16.928	16.928	(1.194)	513171	30.0000	28.3667
117 Hexachlorobutadiene	225	17.115	17.115	(1.207)	399379	30.0000	28.1463
119 Naphthalene	128	17.390	17.390	(1.226)	631408	30.0000	28.7868
120 1,2,3-Trichlorobenzene	180	17.793	17.793	(1.255)	363443	30.0000	28.7684

QC Flag Legend

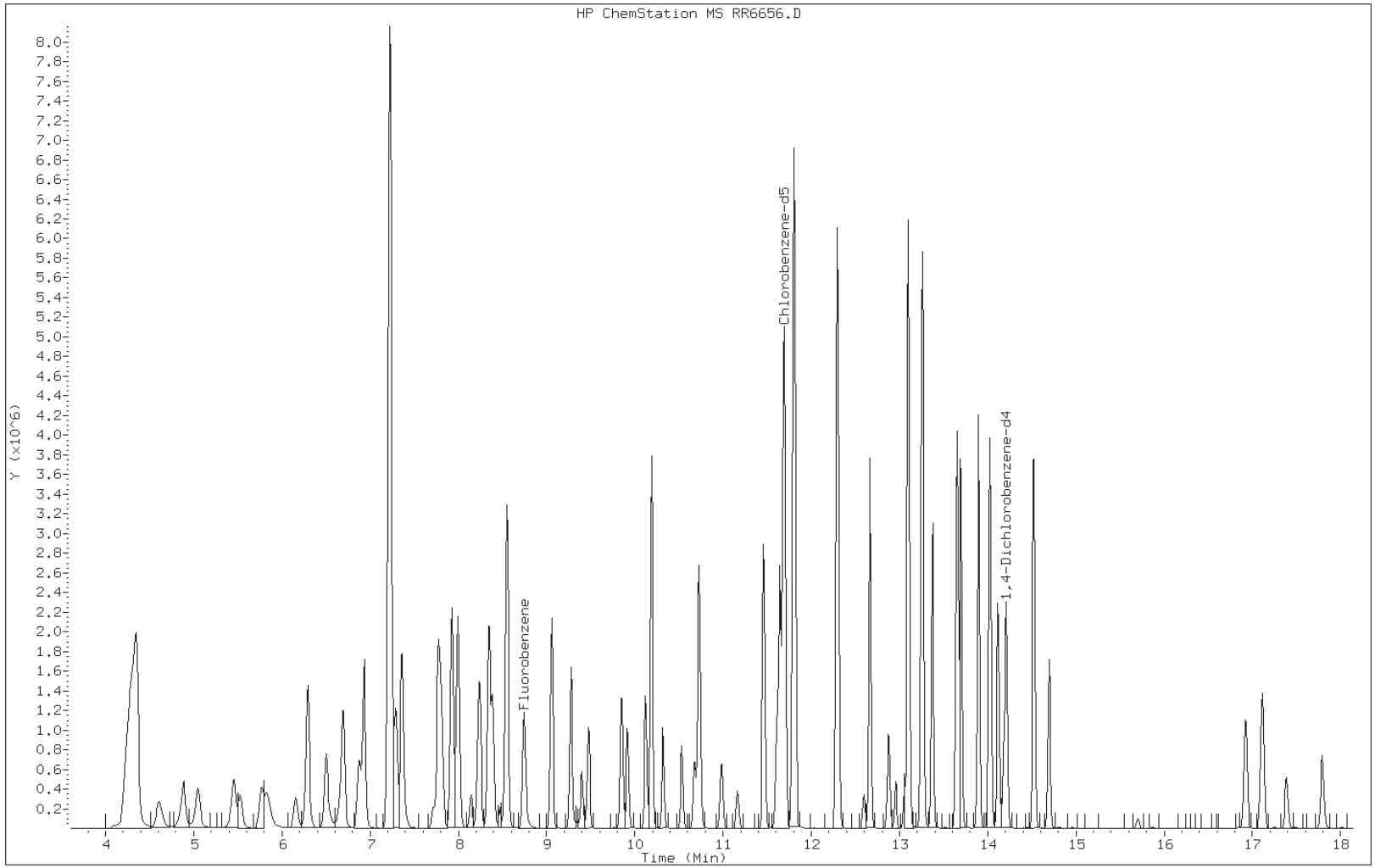
Q - Qualifier signal failed the ratio test.

Data File: RR6656.D

Date: 27-JUN-2011 11:39

Client ID: Instrument: R2.i

Sample Info: IC,, M 30.0 15uL Operator: DOBRANSKYM



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\RR6657.D
Lab Smp Id: IC
Inj Date : 27-JUN-2011 12:01
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : IC,, M 60.0 30uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\8260B-H2O.m
Meth Date : 27-Jun-2011 19:08 R2.i Quant Type: ISTD
Cal Date : 27-JUN-2011 15:22 Cal File: RR6666.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	59 Fluorobenzene	96	8.747	8.747	(1.000)	1188211	12.5000	
*	85 Chlorobenzene-d5	119	11.610	11.610	(1.000)	232979	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	14.187	14.187	(1.000)	235371	12.5000	
M	9 1,2-Dichloroethene (total)	96				3426004	120.000	110.196
M	25 Trihalomethanes (total)	100				5297271	240.000	225.831
M	26 1,3-Dichloropropene (total)	100				3050617	120.000	112.807
M	10 Xylene (total)	106				7262271	180.000	154.052
	1 dichlorodifluoromethane	85	4.605	4.605	(0.527)	1452163	60.0000	60.9033(A)
	3 Chloromethane	50	4.890	4.890	(0.559)	2248316	60.0000	58.0075
	4 Vinyl Chloride	62	5.048	5.048	(0.577)	1842020	60.0000	60.1376(A)
	6 Bromomethane	94	5.461	5.461	(0.624)	1143299	60.0000	51.0508
	7 Chloroethane	64	5.530	5.530	(0.632)	957286	60.0000	53.1220
	11 Trichlorofluoromethane	101	5.766	5.766	(0.659)	2147806	60.0000	55.2273
	12 Ethanol	45	5.835	5.835	(0.667)	265882	3000.00	2761.52
	18 Acrolein	56	6.160	6.160	(0.704)	947557	600.000	597.825
	19 Acetone	43	6.278	6.278	(0.718)	499271	240.000	239.837
	21 1,1-Dichloroethene	96	6.287	6.287	(0.719)	1536349	60.0000	53.6226
	22 Iodomethane	142	6.504	6.504	(0.744)	2464157	60.0000	57.3833
	23 Acetonitrile	41	6.543	6.543	(0.748)	821452	600.000	912.143(A)
	29 tert-Butyl alcohol	59	6.651	6.651	(0.760)	635322	1200.00	1131.31
	30 Methylene Chloride	84	6.691	6.691	(0.765)	1356367	60.0000	59.8989
	31 Acrylonitrile	53	6.878	6.878	(0.786)	1644637	600.000	583.705

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
33 trans-1,2-Dichloroethene	96	6.937	6.937	(0.793)	1763949	60.0000	55.4269
36 Isopropyl ether	87	7.222	7.222	(0.826)	4076935	300.000	271.224
37 1,1-Dichloroethane	63	7.291	7.291	(0.834)	3080193	60.0000	55.8050
38 Chloroprene	53	7.360	7.360	(0.841)	2959898	60.0000	54.9943
41 2-Butanone	43	7.714	7.714	(0.882)	801237	240.000	220.790
43 cis-1,2-Dichloroethene	96	7.773	7.773	(0.889)	1662055	60.0000	54.7687
42 Propionitrile	54	7.793	7.793	(0.891)	549092	600.000	560.875
44 2,2-Dichloropropane	77	7.802	7.802	(0.892)	1929218	60.0000	52.7582
45 Methacrylonitrile	41	7.930	7.930	(0.907)	3141399	600.000	559.473
46 Bromochloromethane	128	7.999	7.999	(0.915)	559709	60.0000	56.1190
47 Chloroform	83	7.999	7.999	(0.915)	2490878	60.0000	53.0223
51 1,1,1-Trichloroethane	97	8.235	8.235	(0.942)	2317000	60.0000	55.4378
50 Isobutanol	41	8.216	8.216	(0.939)	252788	1200.00	1120.32
53 1,1-Dichloropropene	75	8.343	8.343	(0.954)	2294534	60.0000	54.0546
54 Carbon Tetrachloride	117	8.393	8.393	(0.960)	2033357	60.0000	55.8165
56 1,2-Dichloroethane	62	8.540	8.540	(0.976)	1152074	60.0000	54.2822
58 Benzene	78	8.550	8.550	(0.978)	5903849	60.0000	53.0098
60 n-Butanol	56	8.776	8.776	(1.003)	327389	1800.00	1825.43(A)
61 Trichloroethene	95	9.062	9.062	(1.036)	1678116	60.0000	54.3887
65 1,2-Dichloropropane	63	9.278	9.278	(1.061)	1440921	60.0000	56.3103
66 1,4-Dioxane	88	9.337	9.337	(1.067)	193730	3000.00	3196.79(A)
67 Dibromomethane	93	9.396	9.396	(1.074)	566378	60.0000	57.7694
68 Bromodichloromethane	83	9.475	9.475	(1.083)	1527551	60.0000	55.8013
71 cis-1,3-Dichloropropene	75	9.849	9.849	(1.126)	1795437	60.0000	55.5409
72 4-Methyl-2-pentanone	43	9.917	9.917	(1.134)	1821867	240.000	231.792
74 Toluene	91	10.193	10.193	(1.165)	6082886	60.0000	54.6510
76 trans-1,3-Dichloropropene	75	10.321	10.321	(1.180)	1255180	60.0000	57.2659
77 1,1,2-Trichloroethane	97	10.537	10.537	(1.205)	639183	60.0000	56.8335
78 2-Hexanone	43	10.675	10.675	(0.920)	1211648	240.000	215.233
79 1,3-Dichloropropane	76	10.714	10.714	(0.923)	1079636	60.0000	53.8575
80 Tetrachloroethene	164	10.734	10.734	(0.925)	1125688	60.0000	52.0556
81 Dibromochloromethane	129	10.980	10.980	(0.946)	904529	60.0000	57.9552
83 1,2-Dibromoethane	107	11.167	11.167	(0.962)	692593	60.0000	56.9590
84 1-Chlorohexane	91	11.462	11.462	(0.987)	2207897	60.0000	49.0016
86 Chlorobenzene	112	11.649	11.649	(1.003)	3621962	60.0000	51.5175
87 1,1,1,2-Tetrachloroethane	131	11.698	11.698	(1.008)	1070770	60.0000	53.4051
88 Ethylbenzene	106	11.688	11.688	(1.007)	1994390	60.0000	51.0299
89 m and p-Xylene	106	11.806	11.806	(1.017)	4991451	120.000	102.093
90 o-Xylene	106	12.298	12.298	(1.059)	2270820	60.0000	51.9589
91 Styrene	104	12.298	12.298	(1.059)	3484988	60.0000	54.5439
92 Bromoform	173	12.603	12.603	(1.086)	374313	60.0000	59.0519
93 isopropyl benzene	105	12.662	12.662	(0.893)	5921406	60.0000	51.9310
95 Cyclohexanone	55	12.869	12.869	(1.108)	516531	2400.00	2285.58
97 1,1,2,2-Tetrachloroethane	83	12.957	12.957	(0.913)	616884	60.0000	55.7532
99 1,2,3-Trichloropropane	110	13.056	13.056	(0.920)	147479	60.0000	58.5464(Q)
100 Bromobenzene	156	13.105	13.105	(0.924)	1091663	60.0000	54.0644
101 n-Propylbenzene	120	13.095	13.095	(0.923)	1614665	60.0000	50.2298
103 2-Chlorotoluene	126	13.272	13.272	(0.936)	1371375	60.0000	52.5358
102 1,3,5-Trimethylbenzene	105	13.252	13.252	(0.934)	4914622	60.0000	51.2947
104 4-Chlorotoluene	126	13.370	13.370	(0.942)	1369678	60.0000	52.9288
105 tert-Butylbenzene	119	13.656	13.656	(0.963)	4358822	60.0000	50.2865
106 1,2,4-Trimethylbenzene	105	13.695	13.695	(0.965)	4860142	60.0000	52.0369(Q)
107 sec-Butylbenzene	134	13.902	13.902	(0.980)	1128765	60.0000	50.0980
108 4-Isopropyltoluene	119	14.030	14.030	(0.989)	5213670	60.0000	50.2174

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	14.118	14.118	(0.995)	2100600	60.0000	51.8565
111 1,4-dichlorobenzene	146	14.216	14.216	(1.002)	2008042	60.0000	53.5612
113 n-Butylbenzene	91	14.521	14.521	(1.024)	4895990	60.0000	56.8280
114 1,2-Dichlorobenzene	146	14.698	14.698	(1.036)	1629111	60.0000	53.7949
115 1,2-Dibromo-3-chloropropane	157	15.702	15.702	(1.107)	73708	60.0000	63.2438(A)
116 1,2,4-Trichlorobenzene	180	16.922	16.922	(1.193)	957981	60.0000	54.8462
117 Hexachlorobutadiene	225	17.119	17.119	(1.207)	652284	60.0000	47.6120
119 Naphthalene	128	17.384	17.384	(1.225)	1185683	60.0000	55.9880
120 1,2,3-Trichlorobenzene	180	17.797	17.797	(1.254)	669320	60.0000	54.8728

QC Flag Legend

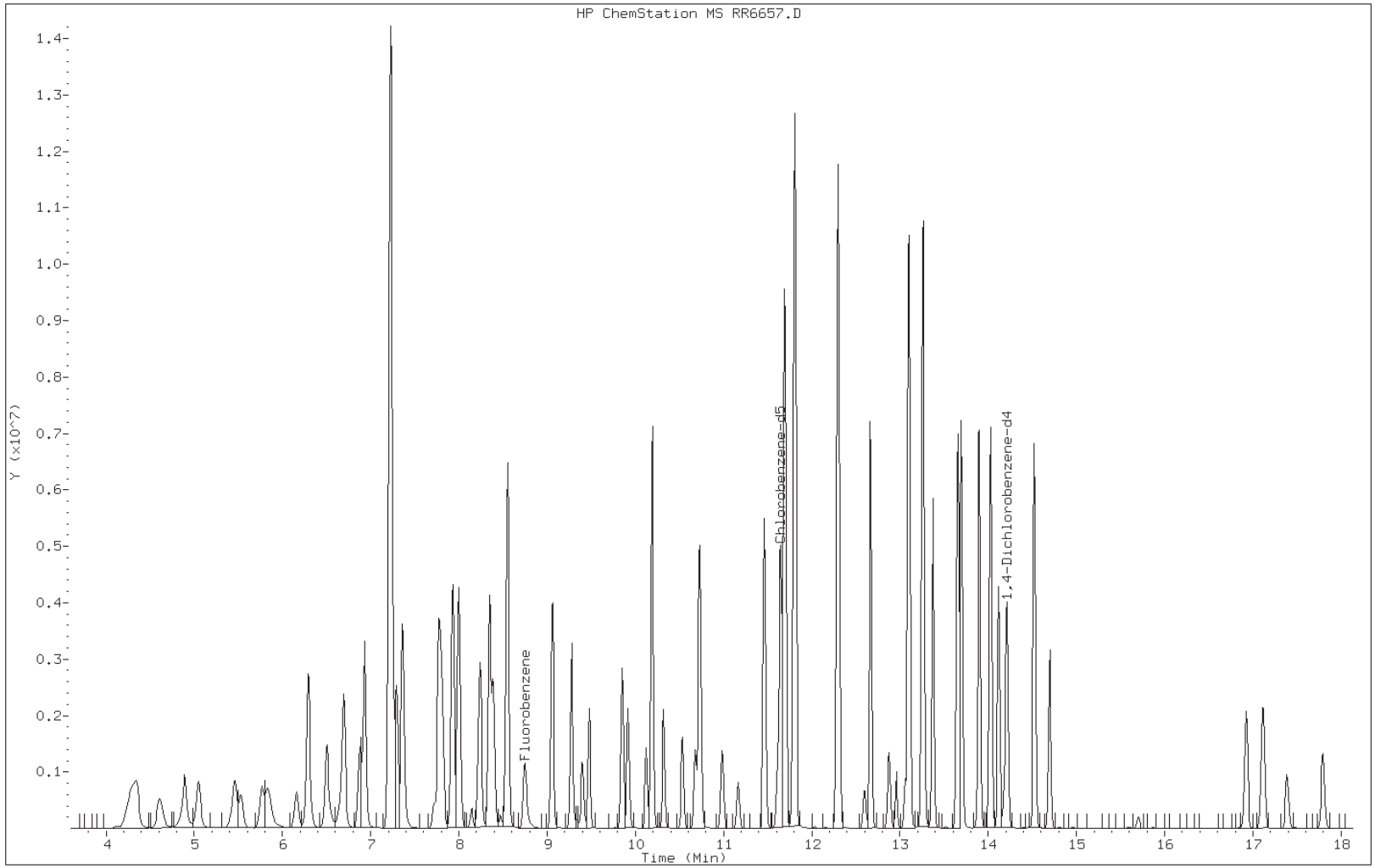
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: RR6657.D

Date: 27-JUN-2011 12:01

Client ID: Instrument: R2.i

Sample Info: IC,, M 60.0 30uL Operator: DOBRANSKYM



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74454

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2011 07:18 Calibration End Date: 06/29/2011 09:32 Calibration ID: 6328

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-74454/3	RR6737.D
Level 2	IC 280-74454/4	RR6738.D
Level 3	IC 280-74454/5	RR6739.D
Level 4	IC 280-74454/6	RR6740.D
Level 5	ICIS 280-74454/7	RR6741.D
Level 6	IC 280-74454/8	RR6742.D
Level 7	IC 280-74454/9	RR6743.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorofluoromethane	+++++ 0.6533	0.7213 0.6432	0.7310	0.7618	0.7102	Ave		0.7035				6.6		15.0			
Tetrahydrofuran	+++++ 0.0253	+++++ 0.0245	0.0270	0.0281	0.0270	Ave		0.0264				5.5		15.0			
Isopropyl alcohol	+++++ 0.0066	0.0080 0.0075	0.0079	0.0080	0.0080	Ave		0.0077				7.1		15.0			
2,2-Dichloro-1,1,1-trifluoroethane	+++++ 0.4835	0.5893 0.4396	0.5953	0.5664	0.5324	Ave		0.5344				11.6		15.0			
Propene oxide	+++++ 0.0173	0.0186 0.0167	0.0190	0.0201	0.0186	Ave		0.0184				6.6					
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2027	0.2308 0.1837	0.2345	0.2323	0.2156	Ave		0.2166				9.3		15.0			
Methyl acetate	+++++ 0.0736	0.0819 0.0725	0.0850	0.0838	0.0787	Ave		0.0793				6.6		15.0			
Allyl chloride	+++++ 0.5970	0.6977 0.5849	0.7028	0.6990	0.6627	Ave		0.6573				8.2		15.0			
Carbon disulfide	+++++ 1.3695	1.6196 1.2813	1.6639	1.6535	1.4968	Ave		1.5141				10.6		15.0			
Methyl tert-butyl ether	+++++ 0.3169	0.3390 0.3124	0.3551	0.3624	0.3438	Ave		0.3383				5.9		15.0			
Hexane	+++++ 2.8415	3.2754 2.4913	3.2632	3.2775	2.9514	Ave		3.0167				10.6		15.0			
Vinyl acetate	+++++ 0.2935	0.3246 0.2847	0.3335	0.3449	0.2949	Ave		0.3127				7.9		15.0			
Tert-butyl ethyl ether	+++++ 0.5234	0.6013 0.5109	0.6002	0.6145	0.5744	Ave		0.5708				7.7		15.0			
2-Butanol	+++++ 0.0063	0.0065 0.0063	0.0072	0.0068	0.0065	Ave		0.0066				5.3					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74454

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2011 07:18 Calibration End Date: 06/29/2011 09:32 Calibration ID: 6328

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexane	+++++ 0.5922	0.7178 0.5181	0.7299	0.6997	0.6550	Ave		0.6521				12.7		15.0			
Tert-amyl methyl ether	+++++ 0.3558	0.3967 0.3348	0.4132	0.4080	0.3808	Ave		0.3816				8.1		15.0			
2-Pentanone	0.0776 0.0685	0.0751 0.0664	0.0759	0.0749	0.0737	Ave		0.0732				5.6		15.0			
Methyl methacrylate	+++++ 0.0256	0.0248 0.0255	0.0245	0.0275	0.0261	Ave		0.0257				4.1		15.0			
Methylcyclohexane	+++++ 0.4926	0.6215 0.4210	0.6227	0.5953	0.5291	Ave		0.5471				14.8		15.0			
Ethyl methacrylate	+++++ 0.6859	0.6984 0.7069	0.7044	0.7946	0.7383	Ave		0.7214				5.5		15.0			
cis-1,4-Dichloro-2-butene	0.1153 0.1437	0.1344 0.1443	0.1552	0.1629	0.1527	Ave		0.1441				10.9		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1211	0.1045 0.1164	0.1263	0.1336	0.1214	Ave		0.1206				8.1		15.0			
Dibromofluoromethane (Surr)	+++++ 0.3037	+++++ 0.2889	0.3576	0.3483	0.3187	Ave		0.3234				9.0		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.2001	+++++ 0.1933	0.2334	0.2308	0.2099	Ave		0.2135				8.4		15.0			
Toluene-d8 (Surr)	+++++ 5.4019	+++++ 5.2864	6.7375	6.6700	5.9832	Ave		6.0158				11.3		15.0			
4-Bromofluorobenzene (Surr)	+++++ 1.5003	+++++ 1.4186	1.9436	1.8032	1.6618	Ave		1.6655				12.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74454

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2011 07:18 Calibration End Date: 06/29/2011 09:32 Calibration ID: 6328

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-74454/3	RR6737.D
Level 2	IC 280-74454/4	RR6738.D
Level 3	IC 280-74454/5	RR6739.D
Level 4	IC 280-74454/6	RR6740.D
Level 5	ICIS 280-74454/7	RR6741.D
Level 6	IC 280-74454/8	RR6742.D
Level 7	IC 280-74454/9	RR6743.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorofluoromethane	FB	Ave	+++++ 1626531	64402 3124147	127644	325709	595953	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Ave	+++++ 125900	+++++ 238233	9442	24027	45307	+++++ 60.0	+++++ 120	4.00	10.0	20.0
Isopropyl alcohol	FB	Ave	+++++ 330669	14290 732728	27471	68823	134364	+++++ 600	20.0 1200	40.0	100	200
2,2-Dichloro-1,1,1-trifluoroethane	FB	Ave	+++++ 1203778	52615 2135217	103959	242181	446767	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Propene oxide	FB	Ave	+++++ 2154488	82960 4055434	166062	429459	779208	+++++ 1500	50.0 3000	100	250	500
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	+++++ 504592	20609 892134	40943	99344	180884	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methyl acetate	FB	Ave	+++++ 916245	36567 1761060	74201	179198	330160	+++++ 150	5.00 300	10.0	25.0	50.0
Allyl chloride	FB	Ave	+++++ 1486248	62293 2840940	122729	298851	556078	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Carbon disulfide	FB	Ave	+++++ 3409407	144602 6223982	290561	706960	1256024	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Ave	+++++ 789003	30262 1517640	62005	154929	288529	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Hexane	CBZ	Ave	+++++ 1345095	56619 2245259	111819	263781	472661	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Vinyl acetate	FB	Ave	+++++ 1461438	57961 2766064	116478	294950	494999	+++++ 60.0	2.00 120	4.00	10.0	20.0
Tert-butyl ethyl ether	FB	Ave	+++++ 6514754	268418 12408652	524041	1313641	2410029	+++++ 150	5.00 300	10.0	25.0	50.0
2-Butanol	FB	Ave	+++++ 472456	17484 917006	37918	86659	163751	+++++ 900	30.0 1800	60.0	150	300
Cyclohexane	FB	Ave	+++++ 1474289	64086 2516380	127449	299183	549590	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-17248-1 Analy Batch No.: 74454

SDG No.:

Instrument ID: MSV_R2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2011 07:18 Calibration End Date: 06/29/2011 09:32 Calibration ID: 6328

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tert-amyl methyl ether	FB	Ave	+++++ 4429590	177106 8131183	360796	872138	1597566	+++++ 150	5.00 300	10.0	25.0	50.0
2-Pentanone	FB	Ave	14485 682534	26827 1289820	53025	128134	247275	2.00 120	4.00 240	8.00	20.0	40.0
Methyl methacrylate	FB	Ave	+++++ 127702	4436 247307	8545	23479	43770	+++++ 60.0	2.00 120	4.00	10.0	20.0
Methylcyclohexane	FB	Ave	+++++ 1226497	55491 2045099	108744	254522	444017	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Ethyl methacrylate	CBZ	Ave	+++++ 649403	24146 1274252	48278	127901	236488	+++++ 60.0	2.00 120	4.00	10.0	20.0
cis-1,4-Dichloro-2-butene	DCB	Ave	1116 72933	2379 144810	5585	13705	25941	0.500 30.0	1.00 60.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 61449	1850 116888	4546	11242	20630	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 504050	+++++ 701726	62441	148924	267455	+++++ 20.0	+++++ 30.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 332077	+++++ 469526	40755	98672	176142	+++++ 20.0	+++++ 30.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 1704764	+++++ 2382188	230873	536808	958191	+++++ 20.0	+++++ 30.0	2.00	5.00	10.0
4-Bromofluorobenzene (Surr)	DCB	Ave	+++++ 507661	+++++ 711957	69960	151721	282323	+++++ 20.0	+++++ 30.0	2.00	5.00	10.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\RR6737.D
Lab Smp Id: IC
Inj Date : 29-JUN-2011 07:18
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : IC,, S 0.5 2.5uL 10x
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\8260B-H2O.m
Meth Date : 29-Jun-2011 11:51 R2.i Quant Type: ISTD
Cal Date : 29-JUN-2011 07:18 Cal File: RR6737.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	8.743	8.737	(1.000)	1166298	12.5000	
* 85 Chlorobenzene-d5	119	11.616	11.610	(1.000)	229085	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	14.193	14.187	(1.000)	242065	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	8.153	8.153	(0.932)	21370	0.50000	0.708111(a)
$ 55 1,2-Dichloroethane-d4	65	8.478	8.478	(0.970)	13243	0.50000	0.664810(a)
$ 73 Toluene-d8	98	10.130	10.130	(0.872)	83018	0.50000	0.752998(a)
$ 96 4-Bromofluorobenzene (Surr)	95	12.885	12.895	(0.908)	26352	0.50000	0.817041(a)
2 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
5 Ethylene Oxide	43	5.389	5.389	(0.616)	31086	62.5000	66.6890
8 Dichlorofluoromethane	67	5.703	5.703	(0.652)	35776	0.50000	0.545066(a)
13 1,2-dichloro-1,1,2-trifluoroe	117	5.969	5.959	(0.683)	18247	0.50000	0.549914(a)
17 Propylene Oxide	58	6.107	6.107	(0.698)	44716	0.50000	26.0770
15 Ethyl Ether	59	5.989	5.989	(0.685)	6815	0.50000	0.510436(a)
16 2,2-dichloro-1,1,1-trifluoroe	83	6.008	6.008	(0.687)	27944	0.50000	0.560397(a)
20 Trichlorotrifluoroethane	151	6.264	6.264	(0.716)	10945	0.50000	0.541593(a)
14 2-propanol	45	5.989	5.989	(0.685)	7790	0.50000	10.8649
24 Methyl Acetate	43	6.530	6.530	(0.747)	21060	0.50000	2.84795
27 Allyl Chloride	41	6.589	6.589	(0.754)	35458	0.50000	0.578128(a)
28 Carbon Disulfide	76	6.608	6.609	(0.756)	83949	0.50000	0.594236(a)
32 Methyl t-butyl ether	73	6.884	6.894	(0.787)	16702	0.50000	0.529191(a)
34 Hexane	57	7.100	7.100	(0.611)	33519	0.50000	0.606278(a)
35 Vinyl acetate	43	7.218	7.218	(0.826)	32649	0.50000	1.11902(a)
39 ETBE	59	7.533	7.543	(0.862)	149920	0.50000	2.81511

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
40	Ethyl Acetate	43	7.700	7.701	(0.881)	13883	0.50000	1.30401
134	2-Butanol	45	7.769	7.769	(0.889)	10342	15.0000	16.7751
48	Tetrahydrofuran	42	Compound Not Detected.					
52	Cyclohexane	56	8.320	8.320	(0.952)	36470	0.50000	0.599410(a)
57	TAME	73	8.527	8.537	(0.975)	98398	0.50000	2.76394
62	2-Pentanone	43	9.117	9.117	(1.043)	14485	2.00000	2.12179
64	Methyl Cyclohexane	55	9.274	9.275	(1.061)	30524	0.50000	0.598006(a)
63	Methyl Methacrylate	100	9.206	9.206	(1.053)	2305	0.50000	0.962808(aQ)
70	2-nitropropane	41	9.658	9.658	(1.105)	757	0.50000	0.380070(aQ)
69	2-Chloroethyl vinyl ether	63	9.638	9.638	(1.102)	865	0.50000	0.243935(a)
75	Ethyl methacrylate	69	10.288	10.288	(0.886)	13023	0.50000	0.984970(a)
82	Tetrahydrothiophene	60	11.045	11.045	(0.951)	2400	0.50000	0.392820(a)
94	cis-1,4-dichloro-2-butene	53	12.727	12.727	(0.897)	1116	0.50000	0.400057(a)
98	t-1,4-Dichloro-2-butene	53	13.003	13.013	(0.916)	1096	0.50000	0.469434(aQ)
112	1,2,3-Trimethylbenzene	105	14.223	14.223	(1.002)	44983	0.50000	0.539944(a)
118	Tetralin	104	Compound Not Detected.					

QC Flag Legend

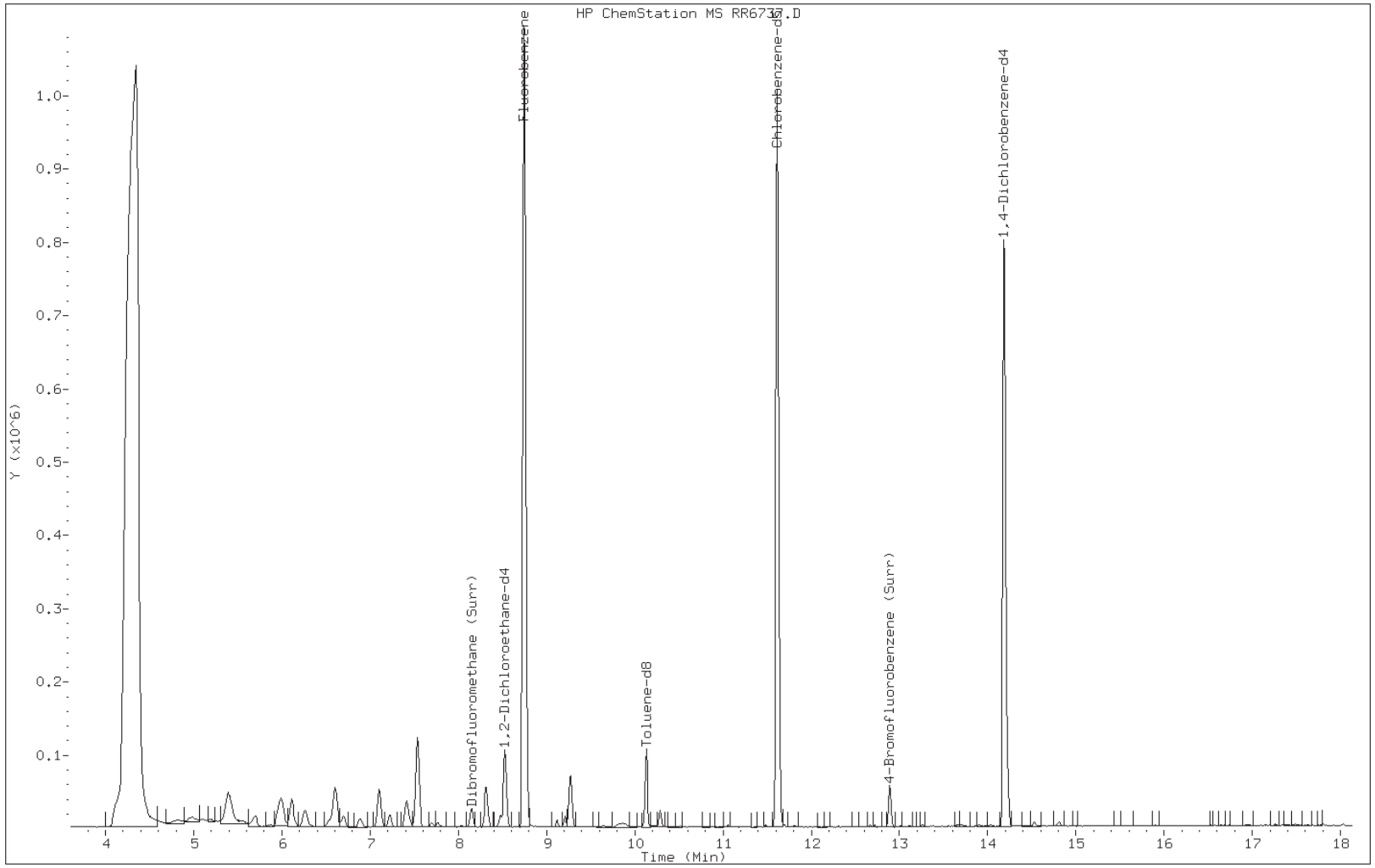
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: RR6737.D

Date: 29-JUN-2011 07:18

Client ID: Instrument: R2.i

Sample Info: IC,, S 0.5 2.5uL 10x Operator: DOBRANSKYM



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\RR6738.D
Lab Smp Id: IC
Inj Date : 29-JUN-2011 07:40
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : IC,, S 1.0 5uL 10x
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\8260B-H2O.m
Meth Date : 29-Jun-2011 11:51 R2.i Quant Type: ISTD
Cal Date : 29-JUN-2011 07:40 Cal File: RR6738.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	8.752	8.737	(1.000)	1116006	12.5000	
* 85 Chlorobenzene-d5	119	11.615	11.610	(1.000)	216078	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	14.192	14.187	(1.000)	221256	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	8.152	8.153	(0.931)	35672	1.00000	1.23528
$ 55 1,2-Dichloroethane-d4	65	8.477	8.478	(0.969)	22223	1.00000	1.16589
$ 73 Toluene-d8	98	10.129	10.130	(0.872)	134314	1.00000	1.29160
$ 96 4-Bromofluorobenzene (Surr)	95	12.884	12.895	(0.908)	39176	1.00000	1.32888
2 1,2-Dichlorotetrafluoroethane	85	4.797	4.798	(0.548)	10243	1.00000	0.833636(a)
5 Ethylene Oxide	43	5.398	5.389	(0.617)	57394	125.000	128.676
8 Dichlorofluoromethane	67	5.703	5.703	(0.652)	64402	1.00000	1.02541
13 1,2-dichloro-1,1,2-trifluoroe	117	5.968	5.959	(0.682)	34471	1.00000	1.08568
17 Propylene Oxide	58	6.116	6.107	(0.699)	82960	50.0000	50.5599
15 Ethyl Ether	59	5.988	5.989	(0.684)	13348	1.00000	1.04480
16 2,2-dichloro-1,1,1-trifluoroe	83	6.007	6.008	(0.686)	52615	1.00000	1.10271
20 Trichlorotrifluoroethane	151	6.273	6.264	(0.717)	20609	1.00000	1.06575
14 2-propanol	45	5.988	5.989	(0.684)	14290	20.0000	20.8288
24 Methyl Acetate	43	6.539	6.530	(0.747)	36567	5.00000	5.16781
27 Allyl Chloride	41	6.588	6.589	(0.753)	62293	1.00000	1.06143
28 Carbon Disulfide	76	6.617	6.609	(0.756)	144602	1.00000	1.06970
32 Methyl t-butyl ether	73	6.893	6.894	(0.788)	30262	1.00000	1.00204
34 Hexane	57	7.109	7.100	(0.612)	56619	1.00000	1.08575
35 Vinyl acetate	43	7.217	7.218	(0.825)	57961	2.00000	2.07610
39 ETBE	59	7.532	7.543	(0.861)	268418	5.00000	5.26732

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
40 Ethyl Acetate	43	7.700	7.701	(0.880)	23320	2.00000	2.28912
134 2-Butanol	45	7.768	7.769	(0.888)	17484	30.0000	29.6377
48 Tetrahydrofuran	42	Compound Not Detected.					
52 Cyclohexane	56	8.319	8.320	(0.951)	64086	1.00000	1.10076
57 TAME	73	8.526	8.537	(0.974)	177106	5.00000	5.19898
62 2-Pentanone	43	9.116	9.117	(1.042)	26827	4.00000	4.10676
64 Methyl Cyclohexane	55	9.274	9.275	(1.060)	55491	1.00000	1.13613
63 Methyl Methacrylate	100	9.205	9.206	(1.052)	4436	2.00000	1.93644
70 2-nitropropane	41	9.657	9.658	(1.103)	1987	1.00000	1.04258
69 2-Chloroethyl vinyl ether	63	9.638	9.638	(1.101)	2767	1.00000	0.815474(a)
75 Ethyl methacrylate	69	10.287	10.288	(0.886)	24146	2.00000	1.93617
82 Tetrahydrothiophene	60	11.054	11.045	(0.952)	5535	1.00000	0.960475(a)
94 cis-1,4-dichloro-2-butene	53	12.726	12.727	(0.897)	2379	1.00000	0.933016(a)
98 t-1,4-Dichloro-2-butene	53	13.012	13.013	(0.917)	1850	1.00000	0.866908(a)
112 1,2,3-Trimethylbenzene	105	14.222	14.223	(1.002)	80421	1.00000	1.05610
118 Tetralin	104	Compound Not Detected.					

QC Flag Legend

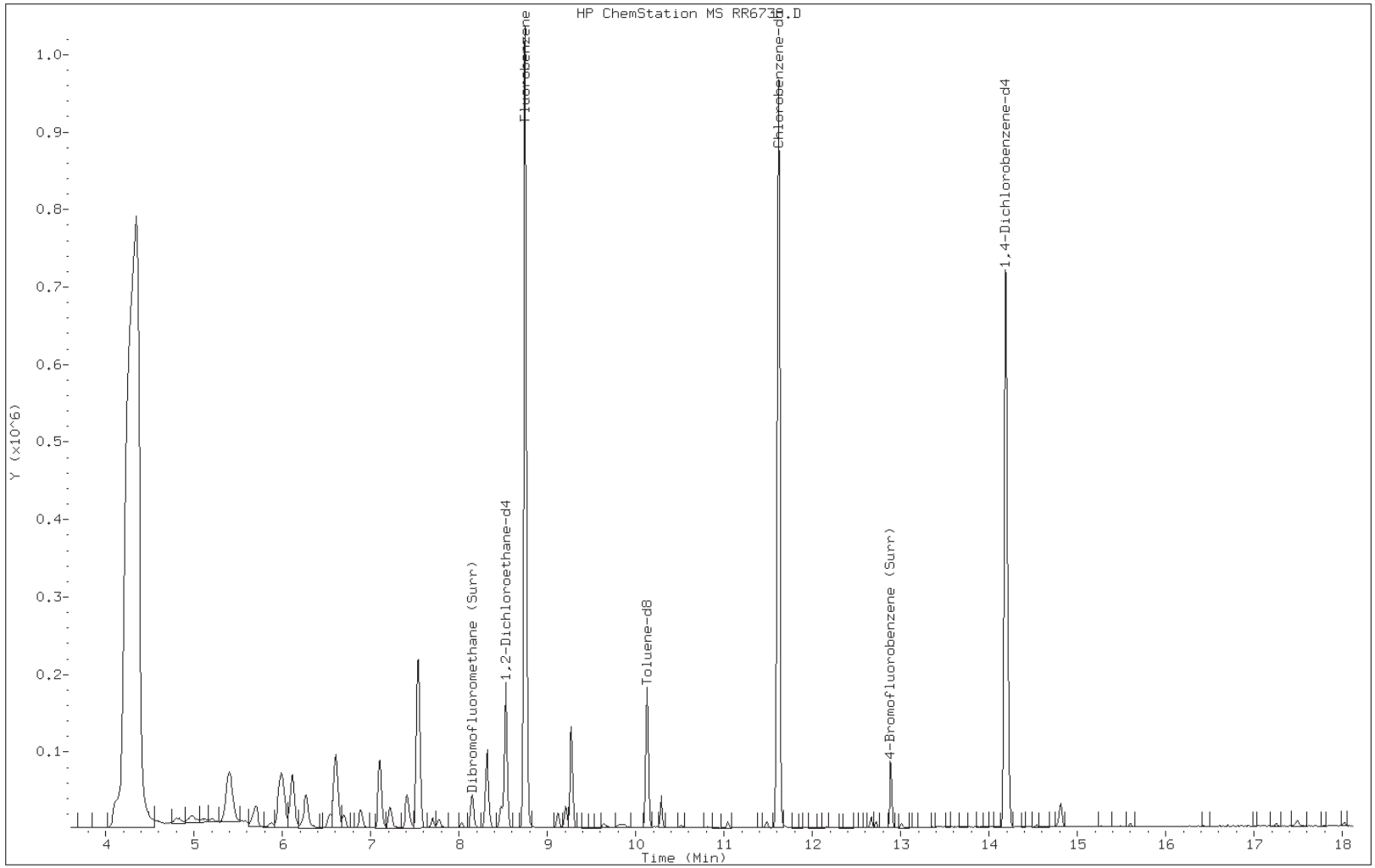
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: RR6738.D

Date: 29-JUN-2011 07:40

Client ID: Instrument: R2.i

Sample Info: IC,, S 1.0 5uL 10x Operator: DOBRANSKYM



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\RR6739.D
Lab Smp Id: IC
Inj Date : 29-JUN-2011 08:02
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : IC,, S 2.0 10uL 10x
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\8260B-H2O.m
Meth Date : 29-Jun-2011 11:51 R2.i Quant Type: ISTD
Cal Date : 29-JUN-2011 08:02 Cal File: RR6739.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	59 Fluorobenzene	96	8.747	8.737	(1.000)	1091392	12.5000	
*	85 Chlorobenzene-d5	119	11.619	11.610	(1.000)	214169	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	14.187	14.187	(1.000)	224965	12.5000	
$	49 Dibromofluoromethane (Surr)	111	8.147	8.153	(0.931)	62441	2.00000	2.21103
$	55 1,2-Dichloroethane-d4	65	8.481	8.478	(0.970)	40755	2.00000	2.18636
$	73 Toluene-d8	98	10.134	10.130	(0.872)	230873	2.00000	2.23993
$	96 4-Bromofluorobenzene (Surr)	95	12.888	12.895	(0.908)	69960	2.00000	2.33398
	2 1,2-Dichlorotetrafluoroethane	85	4.802	4.798	(0.549)	22199	2.00000	1.84743
	5 Ethylene Oxide	43	5.392	5.389	(0.617)	113068	250.000	259.214
	8 Dichlorofluoromethane	67	5.707	5.703	(0.652)	127644	2.00000	2.07819
	13 1,2-dichloro-1,1,2-trifluoroe	117	5.963	5.959	(0.682)	66611	2.00000	2.14525
	17 Propylene Oxide	58	6.110	6.107	(0.699)	166062	100.000	103.489
	15 Ethyl Ether	59	5.992	5.989	(0.685)	25243	2.00000	2.02043
	16 2,2-dichloro-1,1,1-trifluoroe	83	6.012	6.008	(0.687)	103959	2.00000	2.22791
	20 Trichlorotrifluoroethane	151	6.268	6.264	(0.717)	40943	2.00000	2.16504
	14 2-propanol	45	5.992	5.989	(0.685)	27471	40.0000	40.9442
	24 Methyl Acetate	43	6.533	6.530	(0.747)	74201	10.0000	10.7229
	27 Allyl Chloride	41	6.592	6.589	(0.754)	122729	2.00000	2.13838
	28 Carbon Disulfide	76	6.612	6.609	(0.756)	290561	2.00000	2.19791
	32 Methyl t-butyl ether	73	6.888	6.894	(0.787)	62005	2.00000	2.09942
	34 Hexane	57	7.104	7.100	(0.611)	111819	2.00000	2.16340
	35 Vinyl acetate	43	7.222	7.218	(0.826)	116478	4.00000	4.26620
	39 ETBE	59	7.537	7.543	(0.862)	524041	10.0000	10.5155

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
40 Ethyl Acetate	43	7.704	7.701	(0.881)	42155	4.00000	4.23131
134 2-Butanol	45	7.773	7.769	(0.889)	37918	60.0000	65.7257
48 Tetrahydrofuran	42	8.039	8.035	(0.919)	9442	4.00000	4.09822
52 Cyclohexane	56	8.314	8.320	(0.951)	127449	2.00000	2.23848
57 TAME	73	8.530	8.537	(0.975)	360796	10.0000	10.8301
62 2-Pentanone	43	9.121	9.117	(1.043)	53025	8.00000	8.30030
64 Methyl Cyclohexane	55	9.268	9.275	(1.060)	108744	2.00000	2.27666
63 Methyl Methacrylate	100	9.209	9.206	(1.053)	8545	4.00000	3.81425(Q)
70 2-nitropropane	41	9.652	9.658	(1.103)	3766	2.00000	2.02058
69 2-Chloroethyl vinyl ether	63	9.632	9.638	(1.101)	6630	2.00000	1.99802
75 Ethyl methacrylate	69	10.291	10.288	(0.886)	48278	4.00000	3.90572
82 Tetrahydrothiophene	60	11.049	11.045	(0.951)	10674	2.00000	1.86874
94 cis-1,4-dichloro-2-butene	53	12.731	12.727	(0.897)	5585	2.00000	2.15426
98 t-1,4-Dichloro-2-butene	53	13.016	13.013	(0.917)	4546	2.00000	2.09513
112 1,2,3-Trimethylbenzene	105	14.226	14.223	(1.003)	168617	2.00000	2.17780
118 Tetralin	104	Compound Not Detected.					

QC Flag Legend

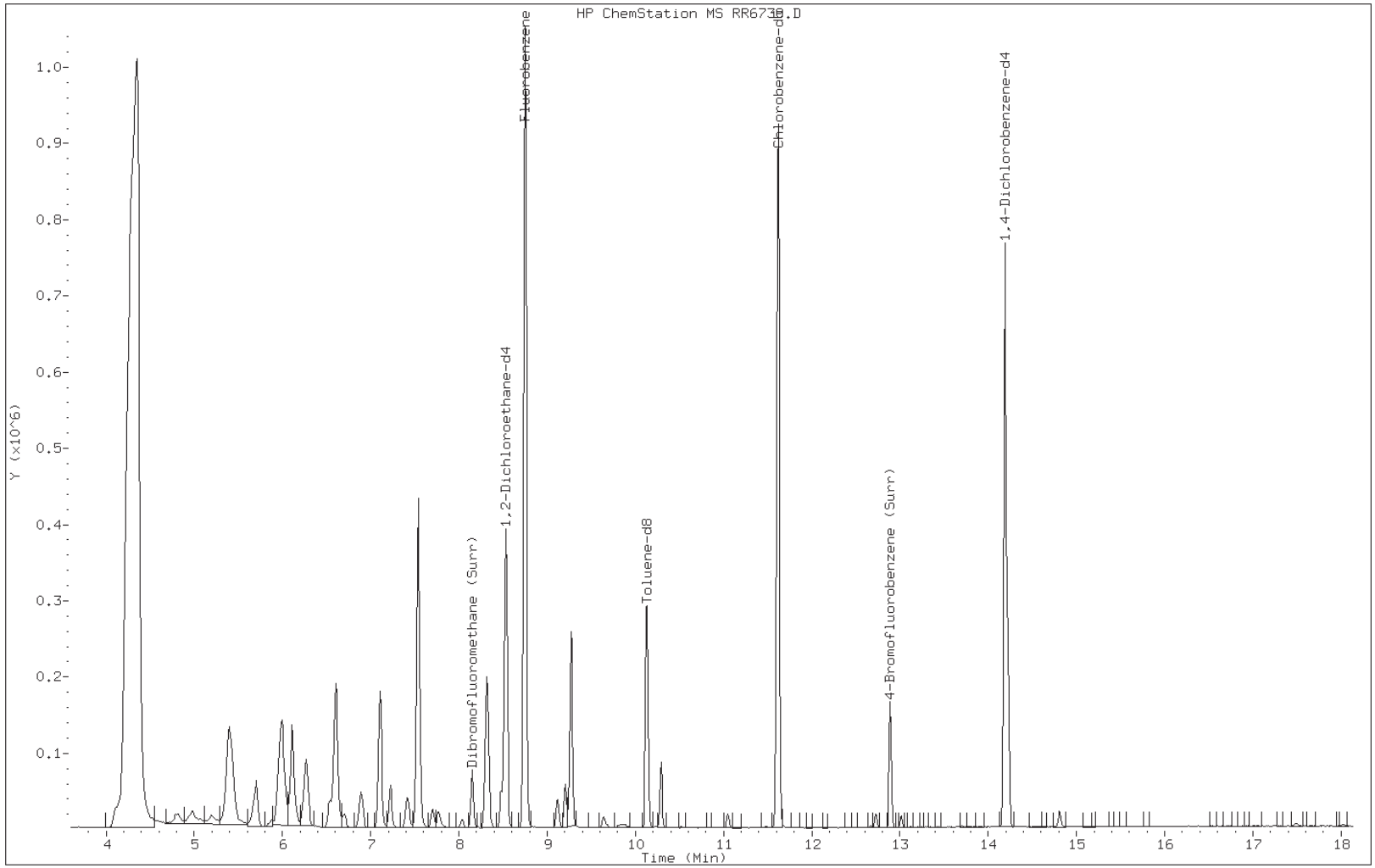
Q - Qualifier signal failed the ratio test.

Data File: RR6739.D

Date: 29-JUN-2011 08:02

Client ID: Instrument: R2.i

Sample Info: IC,, S 2.0 10uL 10x Operator: DOBRANSKYM



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\RR6740.D
Lab Smp Id: IC
Inj Date : 29-JUN-2011 08:25
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : IC,, S 5.0 2.5uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\8260B-H2O.m
Meth Date : 29-Jun-2011 11:51 R2.i Quant Type: ISTD
Cal Date : 29-JUN-2011 08:25 Cal File: RR6740.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	8.748	8.737	(1.000)	1068909	12.5000	
* 85 Chlorobenzene-d5	119	11.620	11.610	(1.000)	201203	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	14.188	14.187	(1.000)	210345	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	8.148	8.153	(0.931)	148924	5.00000	5.38431
$ 55 1,2-Dichloroethane-d4	65	8.482	8.478	(0.970)	98672	5.00000	5.40473
$ 73 Toluene-d8	98	10.135	10.130	(0.872)	536808	5.00000	5.54374
$ 96 4-Bromofluorobenzene (Surr)	95	12.890	12.895	(0.908)	151721	5.00000	5.41347
2 1,2-Dichlorotetrafluoroethane	85	4.803	4.798	(0.549)	65150	5.00000	5.53592
5 Ethylene Oxide	43	5.393	5.389	(0.617)	293894	625.000	687.938
8 Dichlorofluoromethane	67	5.698	5.703	(0.651)	325709	5.00000	5.41446
13 1,2-dichloro-1,1,2-trifluoroe	117	5.964	5.959	(0.682)	154434	5.00000	5.07826
17 Propylene Oxide	58	6.111	6.107	(0.699)	429459	250.000	273.266
15 Ethyl Ether	59	5.993	5.989	(0.685)	65152	5.00000	5.32441
16 2,2-dichloro-1,1,1-trifluoroe	83	6.013	6.008	(0.687)	242181	5.00000	5.29927
20 Trichlorotrifluoroethane	151	6.269	6.264	(0.717)	99344	5.00000	5.36374
14 2-propanol	45	5.984	5.989	(0.684)	68823	100.000	104.735
24 Methyl Acetate	43	6.534	6.530	(0.747)	179198	25.0000	26.4409
27 Allyl Chloride	41	6.594	6.589	(0.754)	298851	5.00000	5.31659
28 Carbon Disulfide	76	6.613	6.609	(0.756)	706960	5.00000	5.46018
32 Methyl t-butyl ether	73	6.898	6.894	(0.789)	154929	5.00000	5.35606
34 Hexane	57	7.105	7.100	(0.611)	263781	5.00000	5.43233
35 Vinyl acetate	43	7.223	7.218	(0.826)	294950	10.0000	11.0303
39 ETBE	59	7.538	7.543	(0.862)	1313641	25.0000	26.9142

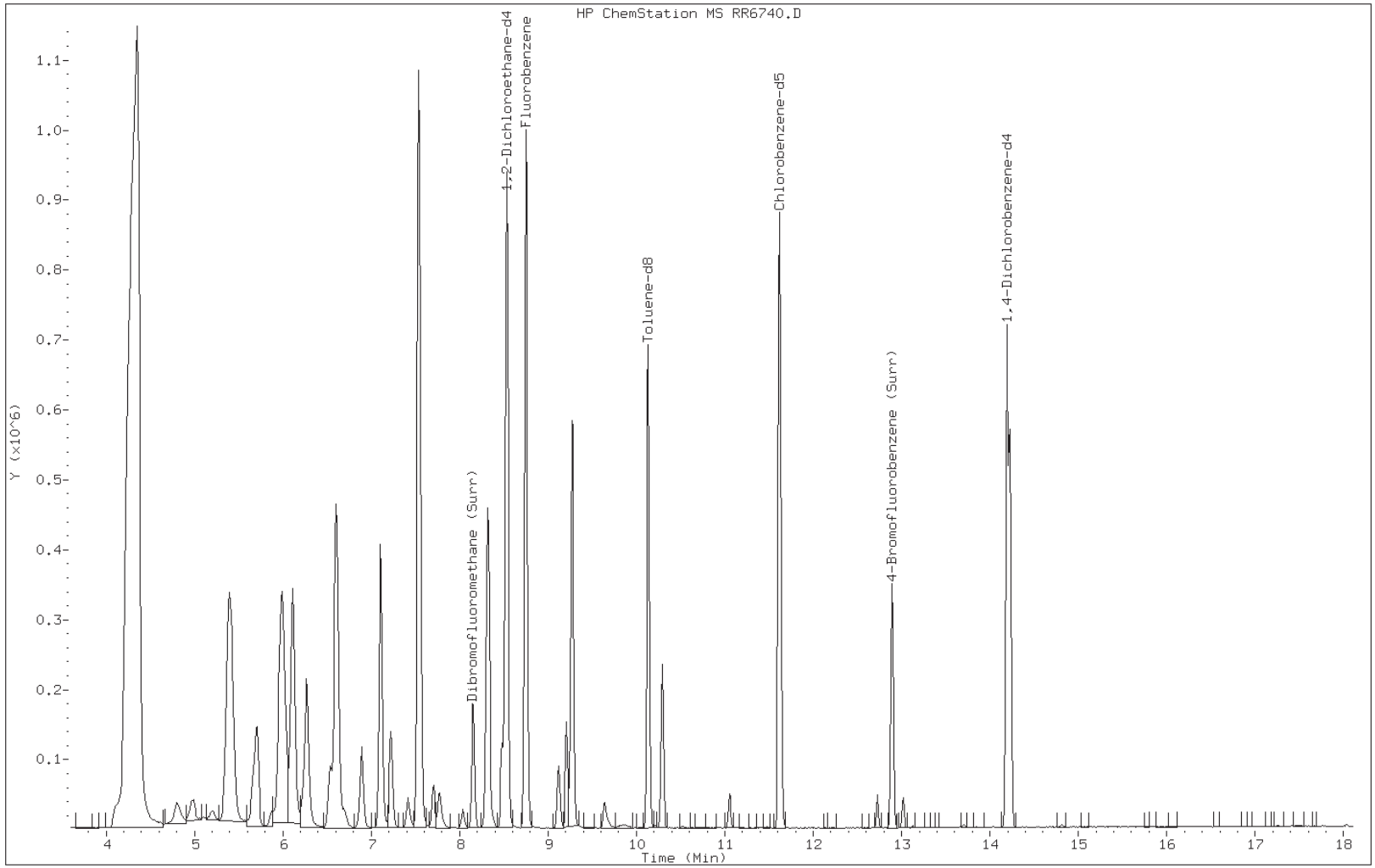
		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
40	Ethyl Acetate	43	7.705	7.701	(0.881)	112751	10.0000	11.5554
134	2-Butanol	45	7.774	7.769	(0.889)	86659	150.000	153.371
48	Tetrahydrofuran	42	8.040	8.035	(0.919)	24027	10.0000	10.6481
52	Cyclohexane	56	8.315	8.320	(0.951)	299183	5.00000	5.36530
57	TAME	73	8.532	8.537	(0.975)	872138	25.0000	26.7298
62	2-Pentanone	43	9.122	9.117	(1.043)	128134	20.0000	20.4794
64	Methyl Cyclohexane	55	9.269	9.275	(1.060)	254522	5.00000	5.44074
63	Methyl Methacrylate	100	9.210	9.206	(1.053)	23479	10.0000	10.7008
70	2-nitropropane	41	9.663	9.658	(1.105)	9706	5.00000	5.31712
69	2-Chloroethyl vinyl ether	63	9.643	9.638	(1.102)	16645	5.00000	5.12165
75	Ethyl methacrylate	69	10.292	10.288	(0.886)	127901	10.0000	11.0141
82	Tetrahydrothiophene	60	11.050	11.045	(0.951)	28461	5.00000	5.30389
94	cis-1,4-dichloro-2-butene	53	12.722	12.727	(0.897)	13705	5.00000	5.65375
98	t-1,4-Dichloro-2-butene	53	13.017	13.013	(0.917)	11242	5.00000	5.54125
112	1,2,3-Trimethylbenzene	105	14.227	14.223	(1.003)	388973	5.00000	5.37303
118	Tetralin	104	Compound Not Detected.					

Data File: RR6740.D

Date: 29-JUN-2011 08:25

Client ID: Instrument: R2.i

Sample Info: IC,, S 5.0 2.5uL Operator: DOBRANSKYM



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\RR6741.D
Lab Smp Id: ICIS Client Smp ID: ICIS
Inj Date : 29-JUN-2011 08:47
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : ICIS,, S 10.0 5uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\8260B-H2O.m
Meth Date : 29-Jun-2011 11:51 R2.i Quant Type: ISTD
Cal Date : 29-JUN-2011 08:47 Cal File: RR6741.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	8.747	8.747	(1.000)	1048908	12.5000	
* 85 Chlorobenzene-d5	119	11.620	11.620	(1.000)	200183	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	14.187	14.187	(1.000)	212356	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	8.147	8.147	(0.931)	267455	10.0000	9.85416
$ 55 1,2-Dichloroethane-d4	65	8.482	8.482	(0.970)	176142	10.0000	9.83210
$ 73 Toluene-d8	98	10.134	10.134	(0.872)	958191	10.0000	9.94588
$ 96 4-Bromofluorobenzene (Surr)	95	12.889	12.889	(0.908)	282323	10.0000	9.97801
2 1,2-Dichlorotetrafluoroethane	85	4.793	4.793	(0.548)	123830	10.0000	10.7227
5 Ethylene Oxide	43	5.393	5.393	(0.617)	527543	1250.00	1258.40
8 Dichlorofluoromethane	67	5.707	5.707	(0.653)	595953	10.0000	10.0958
13 1,2-dichloro-1,1,2-trifluoroe	117	5.963	5.963	(0.682)	296549	10.0000	9.93739
17 Propylene Oxide	58	6.111	6.111	(0.699)	779208	500.000	505.266
15 Ethyl Ether	59	5.983	5.983	(0.684)	125256	10.0000	10.4315
16 2,2-dichloro-1,1,1-trifluoroe	83	6.003	6.003	(0.686)	446767	10.0000	9.96232
20 Trichlorotrifluoroethane	151	6.268	6.268	(0.717)	180884	10.0000	9.95244
14 2-propanol	45	5.983	5.983	(0.684)	134364	200.000	208.374
24 Methyl Acetate	43	6.534	6.534	(0.747)	330160	50.0000	49.6445
27 Allyl Chloride	41	6.593	6.593	(0.754)	556078	10.0000	10.0813
28 Carbon Disulfide	76	6.612	6.612	(0.756)	1256024	10.0000	9.88584
32 Methyl t-butyl ether	73	6.888	6.888	(0.787)	288529	10.0000	10.1650
34 Hexane	57	7.104	7.104	(0.611)	472661	10.0000	9.78363
35 Vinyl acetate	43	7.222	7.222	(0.826)	494999	20.0000	18.8645
39 ETBE	59	7.537	7.537	(0.862)	2410029	50.0000	50.3187

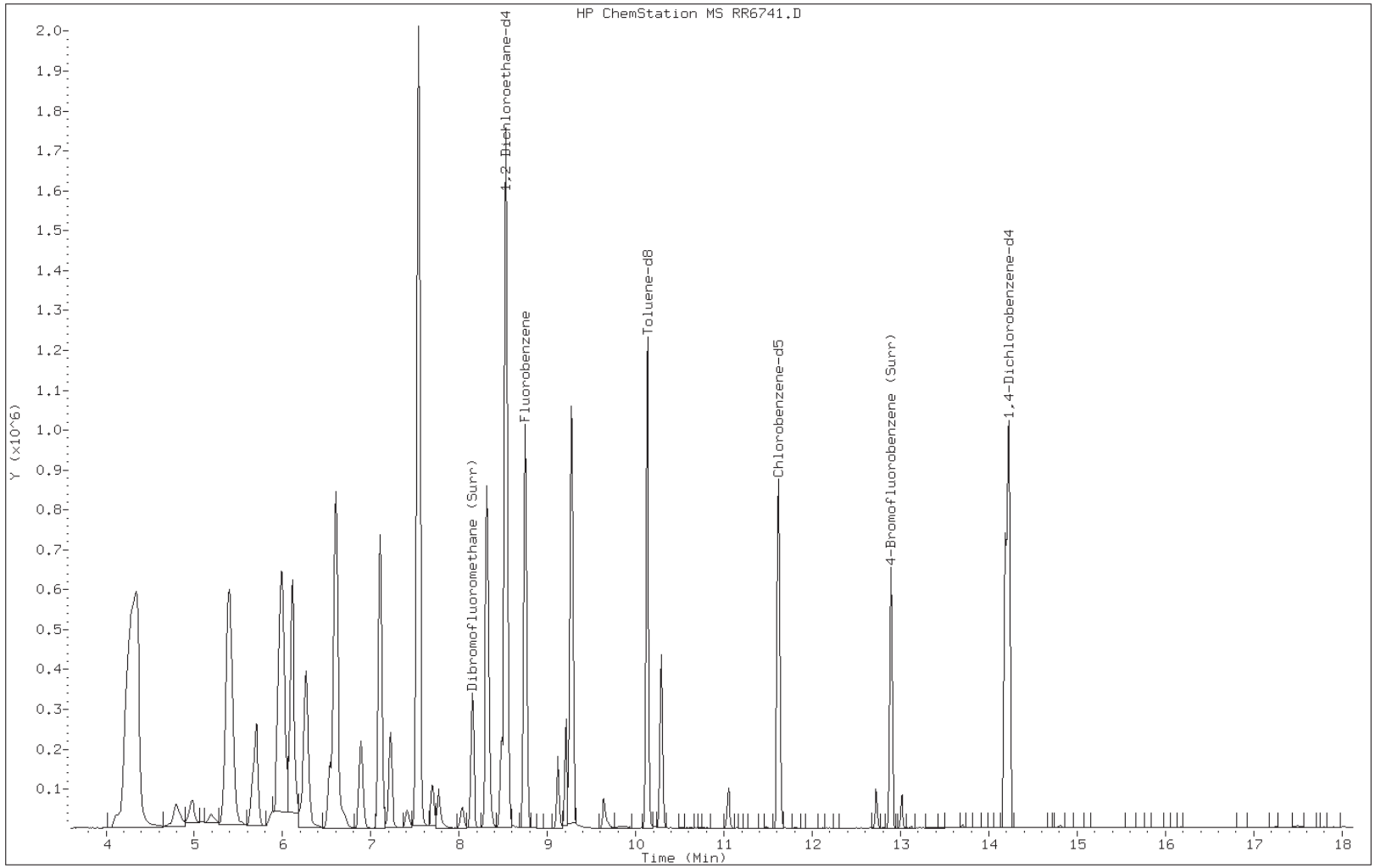
						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
40 Ethyl Acetate	43	7.695	7.695	(0.880)	175761	20.0000	18.3566
134 2-Butanol	45	7.763	7.763	(0.888)	163751	300.000	295.336
48 Tetrahydrofuran	42	8.039	8.039	(0.919)	45307	20.0000	20.4616
52 Cyclohexane	56	8.314	8.314	(0.951)	549590	10.0000	10.0438
57 TAME	73	8.531	8.531	(0.975)	1597566	50.0000	49.8968
62 2-Pentanone	43	9.121	9.121	(1.043)	247275	40.0000	40.2751
64 Methyl Cyclohexane	55	9.269	9.269	(1.060)	444017	10.0000	9.67243
63 Methyl Methacrylate	100	9.210	9.210	(1.053)	43770	20.0000	20.3291
70 2-nitropropane	41	9.662	9.662	(1.105)	17510	10.0000	9.77520
69 2-Chloroethyl vinyl ether	63	9.642	9.642	(1.102)	34910	10.0000	10.9466
75 Ethyl methacrylate	69	10.292	10.292	(0.886)	236488	20.0000	20.4687
82 Tetrahydrothiophene	60	11.049	11.049	(0.951)	56325	10.0000	10.5500
94 cis-1,4-dichloro-2-butene	53	12.722	12.722	(0.897)	25941	10.0000	10.6002
98 t-1,4-Dichloro-2-butene	53	13.017	13.017	(0.917)	20630	10.0000	10.0724
112 1,2,3-Trimethylbenzene	105	14.227	14.227	(1.003)	735182	10.0000	10.0592
118 Tetralin	104	Compound Not Detected.					

Data File: RR6741.D

Date: 29-JUN-2011 08:47

Client ID: ICIS Instrument: R2.i

Sample Info: ICIS,, S 10.0 5uL Operator: DOBRANSKYM



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\RR6742.D
Lab Smp Id: IC
Inj Date : 29-JUN-2011 09:09
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : IC,, S 30.0 15uL
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\8260B-H2O.m
Meth Date : 29-Jun-2011 11:51 R2.i Quant Type: ISTD
Cal Date : 29-JUN-2011 09:09 Cal File: RR6742.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	59 Fluorobenzene	96	8.749	8.747	(1.000)	1037340	12.5000	
*	85 Chlorobenzene-d5	119	11.621	11.620	(1.000)	197243	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	14.189	14.187	(1.000)	211487	12.5000	
$	49 Dibromofluoromethane (Surr)	111	8.149	8.147	(0.931)	504050	20.0000	18.7784
$	55 1,2-Dichloroethane-d4	65	8.473	8.482	(0.969)	332077	20.0000	18.7430
$	73 Toluene-d8	98	10.136	10.134	(0.872)	1704764	20.0000	17.9590
$	96 4-Bromofluorobenzene (Surr)	95	12.890	12.889	(0.908)	507661	20.0000	18.0157
	2 1,2-Dichlorotetrafluoroethane	85	4.794	4.793	(0.548)	352928	30.0000	30.9016
	5 Ethylene Oxide	43	5.394	5.393	(0.617)	1284685	3750.00	3098.66
	8 Dichlorofluoromethane	67	5.709	5.707	(0.653)	1626531	30.0000	27.8617
	13 1,2-dichloro-1,1,2-trifluoroe	117	5.965	5.963	(0.682)	798968	30.0000	27.0721
	17 Propylene Oxide	58	6.112	6.111	(0.699)	2154488	1500.00	1412.62
	15 Ethyl Ether	59	5.994	5.983	(0.685)	335767	30.0000	28.2749
	16 2,2-dichloro-1,1,1-trifluoroe	83	6.004	6.003	(0.686)	1203778	30.0000	27.1420
	20 Trichlorotrifluoroethane	151	6.270	6.268	(0.717)	504592	30.0000	28.0728
	14 2-propanol	45	5.984	5.983	(0.684)	330669	600.000	518.527
	24 Methyl Acetate	43	6.535	6.534	(0.747)	916245	150.000	139.308(A)
	27 Allyl Chloride	41	6.594	6.593	(0.754)	1486248	30.0000	27.2452
	28 Carbon Disulfide	76	6.614	6.612	(0.756)	3409407	30.0000	27.1338
	32 Methyl t-butyl ether	73	6.890	6.888	(0.787)	789003	30.0000	28.1068
	34 Hexane	57	7.106	7.104	(0.611)	1345095	30.0000	28.2572
	35 Vinyl acetate	43	7.224	7.222	(0.826)	1461438	60.0000	56.3168
	39 ETBE	59	7.539	7.537	(0.862)	6514754	150.000	137.538(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
40	Ethyl Acetate	43	7.696	7.695	(0.880)	492140	60.0000	51.9726
134	2-Butanol	45	7.765	7.763	(0.888)	472456	900.000	861.610
48	Tetrahydrofuran	42	8.031	8.039	(0.918)	125900	60.0000	57.4933
52	Cyclohexane	56	8.316	8.314	(0.951)	1474289	30.0000	27.2433
57	TAME	73	8.532	8.531	(0.975)	4429590	150.000	139.892(A)
62	2-Pentanone	43	9.123	9.121	(1.043)	682534	120.000	112.408(A)
64	Methyl Cyclohexane	55	9.270	9.269	(1.060)	1226497	30.0000	27.0159
63	Methyl Methacrylate	100	9.211	9.210	(1.053)	127702	60.0000	59.9729
70	2-nitropropane	41	9.654	9.662	(1.103)	50527	30.0000	28.5220
69	2-Chloroethyl vinyl ether	63	9.634	9.642	(1.101)	91663	30.0000	29.0630
75	Ethyl methacrylate	69	10.293	10.292	(0.886)	649403	60.0000	57.0455
82	Tetrahydrothiophene	60	11.051	11.049	(0.951)	171655	30.0000	32.6312
94	cis-1,4-dichloro-2-butene	53	12.723	12.722	(0.897)	72933	30.0000	29.9247
98	t-1,4-Dichloro-2-butene	53	13.008	13.017	(0.917)	61449	30.0000	30.1250
112	1,2,3-Trimethylbenzene	105	14.228	14.227	(1.003)	1987353	30.0000	27.3038
118	Tetralin	104	Compound Not Detected.					

QC Flag Legend

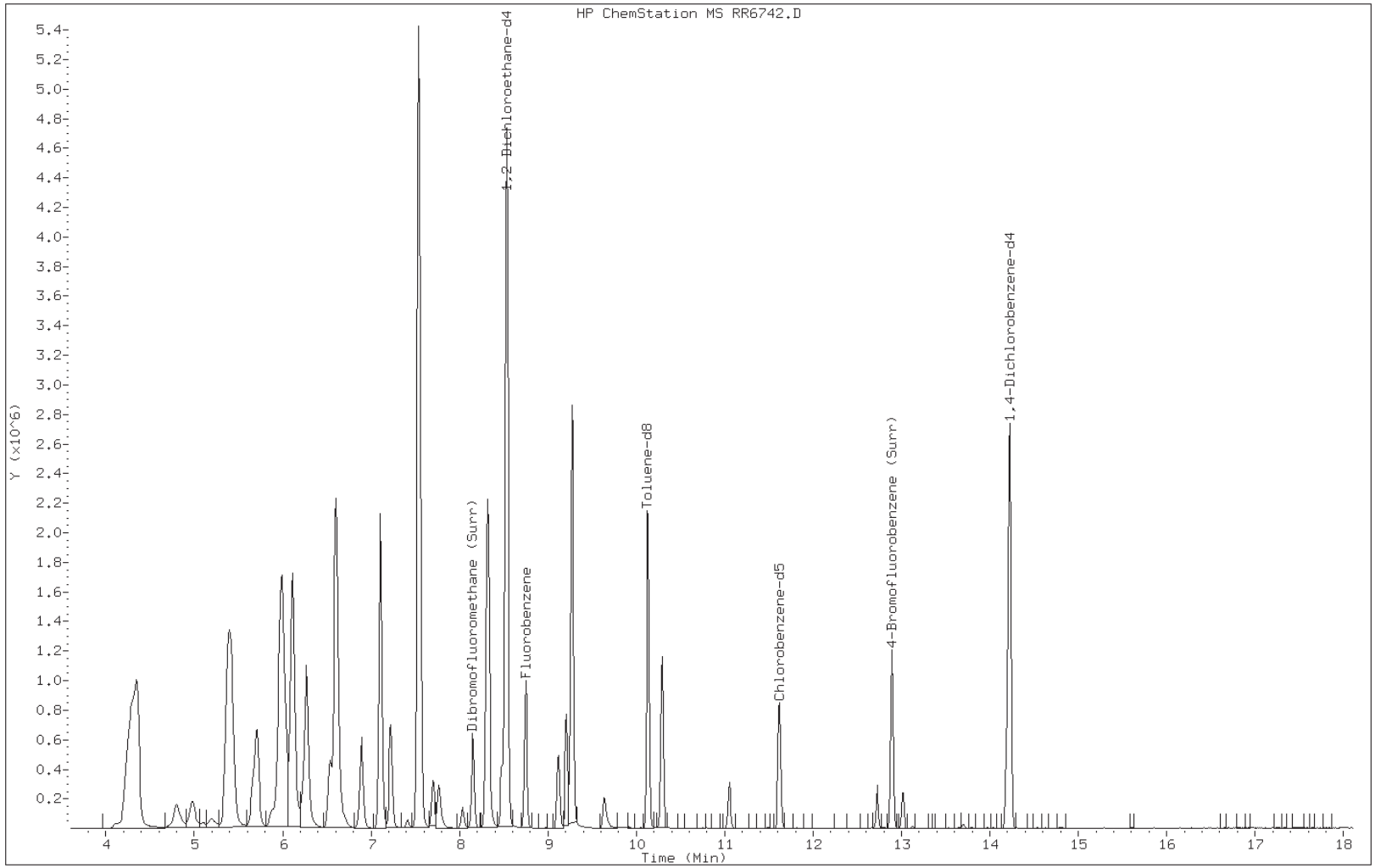
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: RR6742.D

Date: 29-JUN-2011 09:09

Client ID: Instrument: R2.i

Sample Info: IC,, S 30.0 15uL Operator: DOBRANSKYM



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\RR6743.D
Lab Smp Id: IC
Inj Date : 29-JUN-2011 09:32
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : IC,, S 60.0 30uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\8260B-H2O.m
Meth Date : 29-Jun-2011 11:51 R2.i Quant Type: ISTD
Cal Date : 29-JUN-2011 09:32 Cal File: RR6743.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
*	59 Fluorobenzene	96	8.753	8.747	(1.000)	1011958	12.5000	
*	85 Chlorobenzene-d5	119	11.616	11.620	(1.000)	187762	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	14.193	14.187	(1.000)	209119	12.5000	
$	49 Dibromofluoromethane (Surr)	111	8.153	8.147	(0.931)	701726	30.0000	26.7985
$	55 1,2-Dichloroethane-d4	65	8.478	8.482	(0.969)	469526	30.0000	27.1655
$	73 Toluene-d8	98	10.130	10.134	(0.872)	2382188	30.0000	26.3625
$	96 4-Bromofluorobenzene (Surr)	95	12.895	12.889	(0.909)	711957	30.0000	25.5518
	2 1,2-Dichlorotetrafluoroethane	85	4.798	4.793	(0.548)	690649	60.0000	61.9884(A)
	5 Ethylene Oxide	43	5.389	5.393	(0.616)	2014877	7500.00	4981.79
	8 Dichlorofluoromethane	67	5.703	5.707	(0.652)	3124147	60.0000	54.8574
	13 1,2-dichloro-1,1,2-trifluoroe	117	5.959	5.963	(0.681)	1433896	60.0000	49.8045
	17 Propylene Oxide	58	6.107	6.111	(0.698)	4055434	3000.00	2725.70
	15 Ethyl Ether	59	5.989	5.983	(0.684)	621708	60.0000	53.6672
	16 2,2-dichloro-1,1,1-trifluoroe	83	6.008	6.003	(0.686)	2135217	60.0000	49.3510
	20 Trichlorotrifluoroethane	151	6.264	6.268	(0.716)	892134	60.0000	50.8785
	14 2-propanol	45	5.989	5.983	(0.684)	732728	1200.00	1177.82
	24 Methyl Acetate	43	6.530	6.534	(0.746)	1761060	300.000	274.470(A)
	27 Allyl Chloride	41	6.589	6.593	(0.753)	2840940	60.0000	53.3850
	28 Carbon Disulfide	76	6.609	6.612	(0.755)	6223982	60.0000	50.7760
	32 Methyl t-butyl ether	73	6.894	6.888	(0.788)	1517640	60.0000	55.4191
	34 Hexane	57	7.100	7.104	(0.611)	2245259	60.0000	49.5491
	35 Vinyl acetate	43	7.218	7.222	(0.825)	2766064	120.000	109.264
	39 ETBE	59	7.543	7.537	(0.862)	12408652	300.000	268.539(A)

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
40	Ethyl Acetate	43	7.701	7.695	(0.880)	951126	120.000	102.963(A)
134	2-Butanol	45	7.769	7.763	(0.888)	917006	1800.00	1714.27(A)
48	Tetrahydrofuran	42	8.035	8.039	(0.918)	238233	120.000	111.520(A)
52	Cyclohexane	56	8.320	8.314	(0.951)	2516380	60.0000	47.6663
57	TAME	73	8.537	8.531	(0.975)	8131183	300.000	263.234(A)
62	2-Pentanone	43	9.117	9.121	(1.042)	1289820	240.000	217.751(A)
64	Methyl Cyclohexane	55	9.275	9.269	(1.060)	2045099	60.0000	46.1770
63	Methyl Methacrylate	100	9.206	9.210	(1.052)	247307	120.000	119.056(A)
70	2-nitropropane	41	9.658	9.662	(1.103)	103486	60.0000	59.8820
69	2-Chloroethyl vinyl ether	63	9.638	9.642	(1.101)	202653	60.0000	65.8655(A)
75	Ethyl methacrylate	69	10.288	10.292	(0.886)	1274252	120.000	117.586(A)
82	Tetrahydrothiophene	60	11.045	11.049	(0.951)	335316	60.0000	66.9616(A)
94	cis-1,4-dichloro-2-butene	53	12.727	12.722	(0.897)	144810	60.0000	60.0890(A)
98	t-1,4-Dichloro-2-butene	53	13.013	13.017	(0.917)	116888	60.0000	57.9526
112	1,2,3-Trimethylbenzene	105	14.223	14.227	(1.002)	3732502	60.0000	51.8607
118	Tetralin	104	Compound Not Detected.					

QC Flag Legend

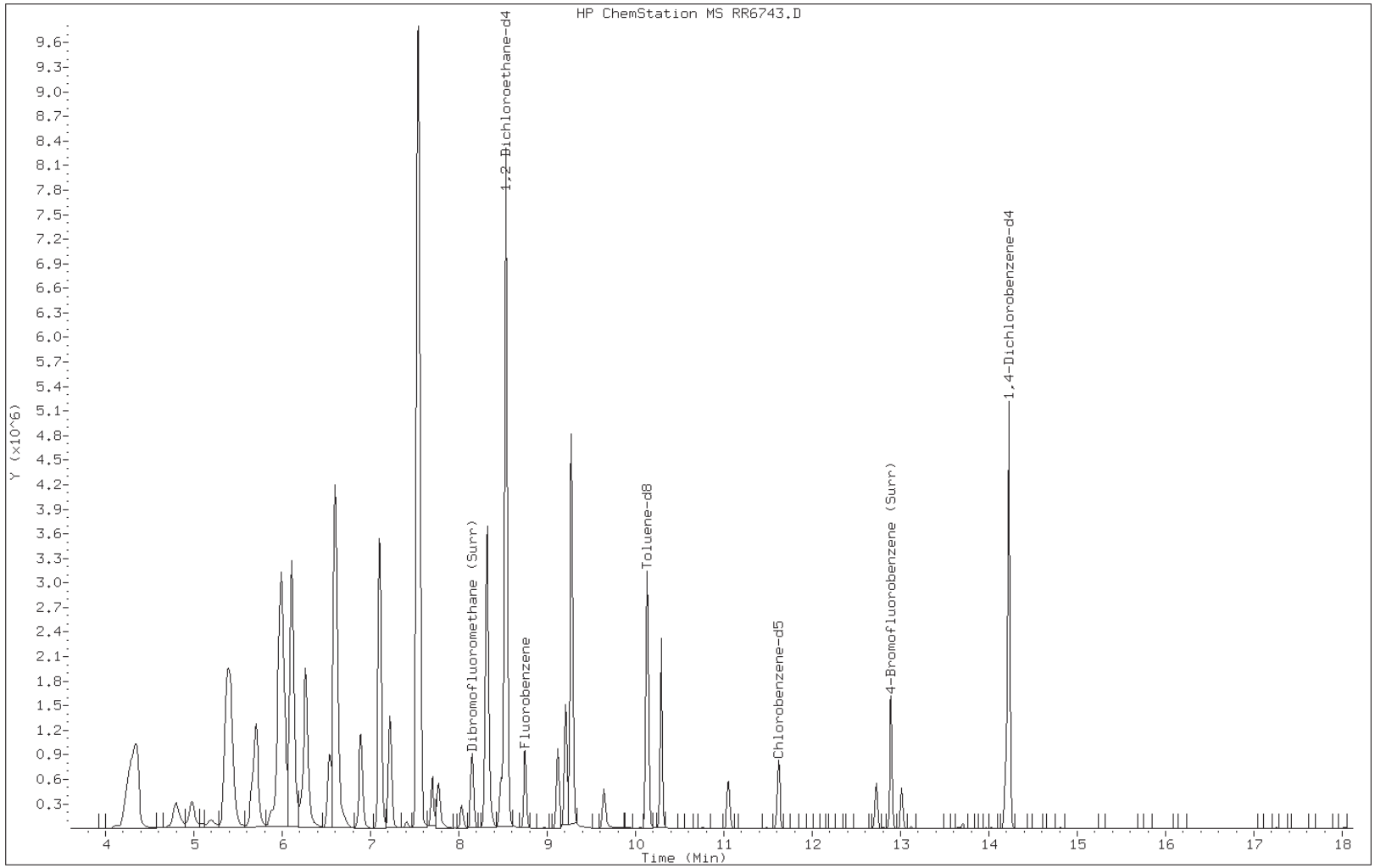
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: RR6743.D

Date: 29-JUN-2011 09:32

Client ID: Instrument: R2.i

Sample Info: IC,, S 60.0 30uL Operator: DOBRANSKYM



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Lab Sample ID: ICV 280-74138/9 Calibration Date: 06/27/2011 12:46

Instrument ID: MSV_R2 Calib Start Date: 06/27/2011 09:48

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/27/2011 12:01

Lab File ID: RR6659.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2508	0.2295		9.15	10.0	-8.5	20.0
Chloromethane	Ave	0.4077	0.3830	0.1000	9.39	10.0	-6.1	20.0
Vinyl chloride	Ave	0.3222	0.3060		9.50	10.0	-5.0	20.0
1,2-Dichloroethene, Total	Ave	0.3270	0.2853		17.5	20.0	-12.8	35.0
Xylenes, Total	Ave	2.530	2.196		26.0	30.0	-13.2	35.0
Bromomethane	Ave	0.2356	0.2303		9.77	10.0	-2.3	20.0
Chloroethane	Ave	0.1896	0.1838		9.70	10.0	-3.0	20.0
Trichlorofluoromethane	Ave	0.4091	0.3590		8.77	10.0	-12.3	20.0
Acrolein	Ave	0.0167	0.0135		80.9	100	-19.1	55.0
Acetone	Lin	0.0314	0.0287		47.0	40.0	17.6	20.0
1,1-Dichloroethene	Ave	0.3014	0.2813		9.33	10.0	-6.7	20.0
Iodomethane	Ave	0.4518	0.4091		9.06	10.0	-9.4	35.0
Methylene Chloride	Lin	0.2888	0.2499		9.75	10.0	-2.5	20.0
Acrylonitrile	Ave	0.0296	0.0298		100	100	0.4	55.0
trans-1,2-Dichloroethene	Ave	0.3348	0.2838		8.48	10.0	-15.2	20.0
1,1-Dichloroethane	Ave	0.5807	0.5268	0.1000	9.07	10.0	-9.3	20.0
2-Butanone (MEK)	Ave	0.0382	0.0400		41.9	40.0	4.7	20.0
cis-1,2-Dichloroethene	Ave	0.3192	0.2867		8.98	10.0	-10.2	20.0
2,2-Dichloropropane	Ave	0.3847	0.3294		8.56	10.0	-14.4	20.0
Chlorobromomethane	Ave	0.1049	0.0934		8.90	10.0	-11.0	20.0
Chloroform	Ave	0.4942	0.4453		9.01	10.0	-9.9	20.0
1,1,1-Trichloroethane	Ave	0.4397	0.3770		8.57	10.0	-14.3	20.0
1,1-Dichloropropene	Ave	0.4466	0.3728		8.35	10.0	-16.5	20.0
Carbon tetrachloride	Ave	0.3832	0.3353		8.75	10.0	-12.5	20.0
1,2-Dichloroethane	Ave	0.2233	0.1968		8.81	10.0	-11.9	20.0
Benzene	Ave	1.172	1.010		8.62	10.0	-13.8	20.0
Trichloroethene	Ave	0.3246	0.2887		8.89	10.0	-11.1	20.0
1,2-Dichloropropane	Ave	0.2692	0.2452		9.11	10.0	-8.9	20.0
Dibromomethane	Ave	0.1031	0.0943		9.14	10.0	-8.6	20.0
Dichlorobromomethane	Ave	0.2880	0.2695		9.36	10.0	-6.4	20.0
cis-1,3-Dichloropropene	Ave	0.3401	0.3003		8.83	10.0	-11.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0827	0.0877		42.4	40.0	6.1	20.0
Toluene	Ave	1.171	0.9877		8.44	10.0	-15.6	20.0
trans-1,3-Dichloropropene	Ave	0.2306	0.2118		9.18	10.0	-8.2	20.0
1,1,2-Trichloroethane	Ave	0.1183	0.1158		9.79	10.0	-2.1	20.0
2-Hexanone	Ave	0.3020	0.3059		40.5	40.0	1.3	20.0
1,3-Dichloropropane	Ave	1.076	0.9839		9.15	10.0	-8.5	20.0
Tetrachloroethene	Ave	1.160	0.9591		8.27	10.0	-17.3	20.0
Chlorodibromomethane	Ave	0.8374	0.8035		9.60	10.0	-4.0	20.0
Ethylene Dibromide	Ave	0.6524	0.6086		9.33	10.0	-6.7	20.0
1-Chlorohexane	Ave	2.417	1.994		8.25	10.0	-17.5	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Lab Sample ID: ICV 280-74138/9 Calibration Date: 06/27/2011 12:46

Instrument ID: MSV_R2 Calib Start Date: 06/27/2011 09:48

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/27/2011 12:01

Lab File ID: RR6659.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	3.772	3.208	0.3000	8.50	10.0	-15.0	20.0
Ethylbenzene	Ave	2.097	1.837		8.76	10.0	-12.4	20.0
1,1,1,2-Tetrachloroethane	Ave	1.076	0.995		9.25	10.0	-7.5	20.0
m-Xylene & p-Xylene	Ave	2.623	2.267		17.3	20.0	-13.6	20.0
o-Xylene	Ave	2.345	2.052		8.75	10.0	-12.5	20.0
Styrene	Ave	3.428	3.107		9.06	10.0	-9.4	20.0
Bromoform	Ave	0.3401	0.3475	0.1000	10.2	10.0	2.2	20.0
Isopropylbenzene	Ave	6.056	5.677		9.37	10.0	-6.3	20.0
Cyclohexanone	Ave	0.0121	0.0123		253	250	1.3	35.0
1,1,2,2-Tetrachloroethane	Ave	0.5876	0.5812	0.3000	9.89	10.0	-1.1	20.0
1,2,3-Trichloropropane	Ave	0.1338	0.1308		9.78	10.0	-2.2	20.0
Bromobenzene	Ave	1.072	0.9653		9.00	10.0	-10.0	20.0
N-Propylbenzene	Ave	1.707	1.452		8.51	10.0	-14.9	20.0
1,3,5-Trimethylbenzene	Ave	5.088	4.360		8.57	10.0	-14.3	20.0
2-Chlorotoluene	Ave	1.386	1.209		8.72	10.0	-12.8	20.0
4-Chlorotoluene	Ave	1.374	1.188		8.64	10.0	-13.6	20.0
tert-Butylbenzene	Ave	4.603	3.936		8.55	10.0	-14.5	20.0
1,2,4-Trimethylbenzene	Ave	4.960	4.235		8.54	10.0	-14.6	20.0
sec-Butylbenzene	Ave	1.197	1.005		8.40	10.0	-16.0	20.0
4-Isopropyltoluene	Ave	5.514	4.580		8.31	10.0	-16.9	20.0
1,3-Dichlorobenzene	Ave	2.151	1.863		8.66	10.0	-13.4	20.0
1,4-Dichlorobenzene	Ave	1.991	1.790		8.99	10.0	-10.1	20.0
n-Butylbenzene	Lin1	5.425	4.499		9.30	10.0	-7.0	20.0
1,2-Dichlorobenzene	Ave	1.608	1.450		9.01	10.0	-9.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0619	0.0611		9.87	10.0	-1.3	20.0
1,2,4-Trichlorobenzene	Ave	0.9276	0.8332		8.98	10.0	-10.2	20.0
Hexachlorobutadiene	Ave	0.7276	0.5985		8.23	10.0	-17.7	20.0
Naphthalene	Ave	1.125	1.021		9.08	10.0	-9.2	20.0
1,2,3-Trichlorobenzene	Ave	0.6478	0.5867		9.06	10.0	-9.4	20.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\RR6659.D
Lab Smp Id: ICV
Inj Date : 27-JUN-2011 12:46
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : ICV,, MA 5uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\8260B-H2O.m
Meth Date : 27-Jun-2011 19:08 R2.i Quant Type: ISTD
Cal Date : 27-JUN-2011 15:44 Cal File: RR6667.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: icvma.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	59 Fluorobenzene	96	8.747	8.747	(1.000)	1190278	12.5000		
*	85 Chlorobenzene-d5	119	11.609	11.610	(1.000)	225347	12.5000		
*	110 1,4-Dichlorobenzene-d4	152	14.187	14.187	(1.000)	231911	12.5000		(Q)
M	9 1,2-Dichloroethene (total)	96				543259	17.4577	17.4577	
M	10 Xylene (total)	106				1187438	26.0383	26.0383	
M	26 1,3-Dichloropropene (total)	100				487608	18.0146	18.0146	
M	25 Trihalomethanes (total)	100				888171	38.1821	38.1820	
	1 dichlorodifluoromethane	85	4.615	4.605	(0.528)	218494	9.14766	9.14766	
	3 Chloromethane	50	4.871	4.890	(0.557)	364684	9.39267	9.39266	
	4 Vinyl Chloride	62	5.048	5.048	(0.577)	291417	9.49755	9.49755	
	6 Bromomethane	94	5.451	5.461	(0.623)	219253	9.77314	9.77314	
	7 Chloroethane	64	5.530	5.530	(0.632)	175041	9.69655	9.69655	
	11 Trichlorofluoromethane	101	5.776	5.766	(0.660)	341815	8.77395	8.77394	
	18 Acrolein	56	6.159	6.160	(0.704)	128450	80.8999	80.8999	
	19 Acetone	43	6.277	6.278	(0.718)	109135	47.0391	47.0391	
	21 1,1-Dichloroethene	96	6.297	6.287	(0.720)	267893	9.33393	9.33393	
	22 Iodomethane	142	6.504	6.504	(0.744)	389544	9.05563	9.05563	
	30 Methylene Chloride	84	6.700	6.691	(0.766)	237923	9.74882	9.74882	
	31 Acrylonitrile	53	6.877	6.878	(0.786)	283282	100.366	100.366	
	33 trans-1,2-Dichloroethene	96	6.936	6.937	(0.793)	270252	8.47712	8.47712	
	37 1,1-Dichloroethane	63	7.291	7.291	(0.834)	501640	9.07262	9.07262	
	41 2-Butanone	43	7.714	7.714	(0.882)	152257	41.8832	41.8832	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
43	cis-1,2-Dichloroethene	96	7.773	7.773	(0.889)	273007	8.98062	8.98062
44	2,2-Dichloropropane	77	7.802	7.802	(0.892)	313649	8.56244	8.56244
46	Bromochloromethane	128	7.999	7.999	(0.915)	88908	8.89885	8.89885
47	Chloroform	83	7.999	7.999	(0.915)	424017	9.01021	9.01021
51	1,1,1-Trichloroethane	97	8.235	8.235	(0.942)	358954	8.57361	8.57361
53	1,1-Dichloropropene	75	8.343	8.343	(0.954)	354950	8.34739	8.34739
54	Carbon Tetrachloride	117	8.392	8.393	(0.960)	319281	8.74917	8.74917
56	1,2-Dichloroethane	62	8.540	8.540	(0.976)	187370	8.81298	8.81298
58	Benzene	78	8.550	8.550	(0.978)	961432	8.61758	8.61758
61	Trichloroethene	95	9.061	9.062	(1.036)	274894	8.89400	8.89400
65	1,2-Dichloropropane	63	9.278	9.278	(1.061)	233476	9.10825	9.10825
67	Dibromomethane	93	9.406	9.396	(1.075)	89758	9.13923	9.13923
68	Bromodichloromethane	83	9.475	9.475	(1.083)	256654	9.35927	9.35927
71	cis-1,3-Dichloropropene	75	9.848	9.849	(1.126)	285962	8.83072	8.83072
72	4-Methyl-2-pentanone	43	9.917	9.917	(1.134)	334064	42.4283	42.4283
74	Toluene	91	10.193	10.193	(1.165)	940530	8.43541	8.43541
76	trans-1,3-Dichloropropene	75	10.321	10.321	(1.180)	201646	9.18385	9.18385
77	1,1,2-Trichloroethane	97	10.537	10.537	(1.205)	110269	9.78764	9.78764
78	2-Hexanone	43	10.675	10.675	(0.920)	220606	40.5149	40.5149
79	1,3-Dichloropropane	76	10.714	10.714	(0.923)	177371	9.14779	9.14779
80	Tetrachloroethene	164	10.734	10.734	(0.925)	172897	8.26612	8.26612
81	Dibromochloromethane	129	10.990	10.980	(0.947)	144861	9.59592	9.59592
83	1,2-Dibromoethane	107	11.167	11.167	(0.962)	109713	9.32840	9.32840
84	1-Chlorohexane	91	11.462	11.462	(0.987)	359494	8.24874	8.24874
86	Chlorobenzene	112	11.649	11.649	(1.003)	578273	8.50372	8.50372
87	1,1,1,2-Tetrachloroethane	131	11.698	11.698	(1.008)	179454	9.25347	9.25347
88	Ethylbenzene	106	11.688	11.688	(1.007)	331171	8.76056	8.76056
89	m and p-Xylene	106	11.806	11.806	(1.017)	817538	17.2879	17.2879
90	o-Xylene	106	12.298	12.298	(1.059)	369900	8.75037	8.75037
91	Styrene	104	12.298	12.298	(1.059)	560049	9.06225	9.06225
92	Bromoform	173	12.603	12.603	(1.086)	62639	10.2167	10.2166
93	isopropyl benzene	105	12.662	12.662	(0.893)	1053246	9.37483	9.37483
95	Cyclohexanone	55	12.869	12.869	(1.108)	55334	253.138	253.138
97	1,1,2,2-Tetrachloroethane	83	12.957	12.957	(0.913)	107831	9.89102	9.89102
99	1,2,3-Trichloropropane	110	13.055	13.056	(0.920)	24269	9.77808	9.77808
100	Bromobenzene	156	13.105	13.105	(0.924)	179087	9.00157	9.00157
101	n-Propylbenzene	120	13.105	13.095	(0.924)	269388	8.50528	8.50528
103	2-Chlorotoluene	126	13.272	13.272	(0.936)	224298	8.72081	8.72080
102	1,3,5-Trimethylbenzene	105	13.252	13.252	(0.934)	808872	8.56828	8.56828
104	4-Chlorotoluene	126	13.380	13.370	(0.943)	220340	8.64168	8.64168
105	tert-Butylbenzene	119	13.656	13.656	(0.963)	730310	8.55108	8.55108
106	1,2,4-Trimethylbenzene	105	13.695	13.695	(0.965)	785695	8.53784	8.53784
107	sec-Butylbenzene	134	13.901	13.902	(0.980)	186471	8.39963	8.39963
108	4-Isopropyltoluene	119	14.029	14.030	(0.989)	849703	8.30634	8.30634
109	1,3-Dichlorobenzene	146	14.118	14.118	(0.995)	345629	8.65968	8.65968
111	1,4-dichlorobenzene	146	14.216	14.216	(1.002)	332104	8.99049	8.99049
113	n-Butylbenzene	91	14.521	14.521	(1.024)	834726	9.29912	9.29912
114	1,2-Dichlorobenzene	146	14.698	14.698	(1.036)	268933	9.01294	9.01294
115	1,2-Dibromo-3-chloropropane	157	15.702	15.702	(1.107)	11337	9.87264	9.87264
116	1,2,4-Trichlorobenzene	180	16.922	16.922	(1.193)	154577	8.98186	8.98186
117	Hexachlorobutadiene	225	17.118	17.119	(1.207)	111033	8.22551	8.22551
119	Naphthalene	128	17.394	17.384	(1.226)	189514	9.08238	9.08238
120	1,2,3-Trichlorobenzene	180	17.797	17.797	(1.254)	108840	9.05614	9.05614

QC Flag Legend

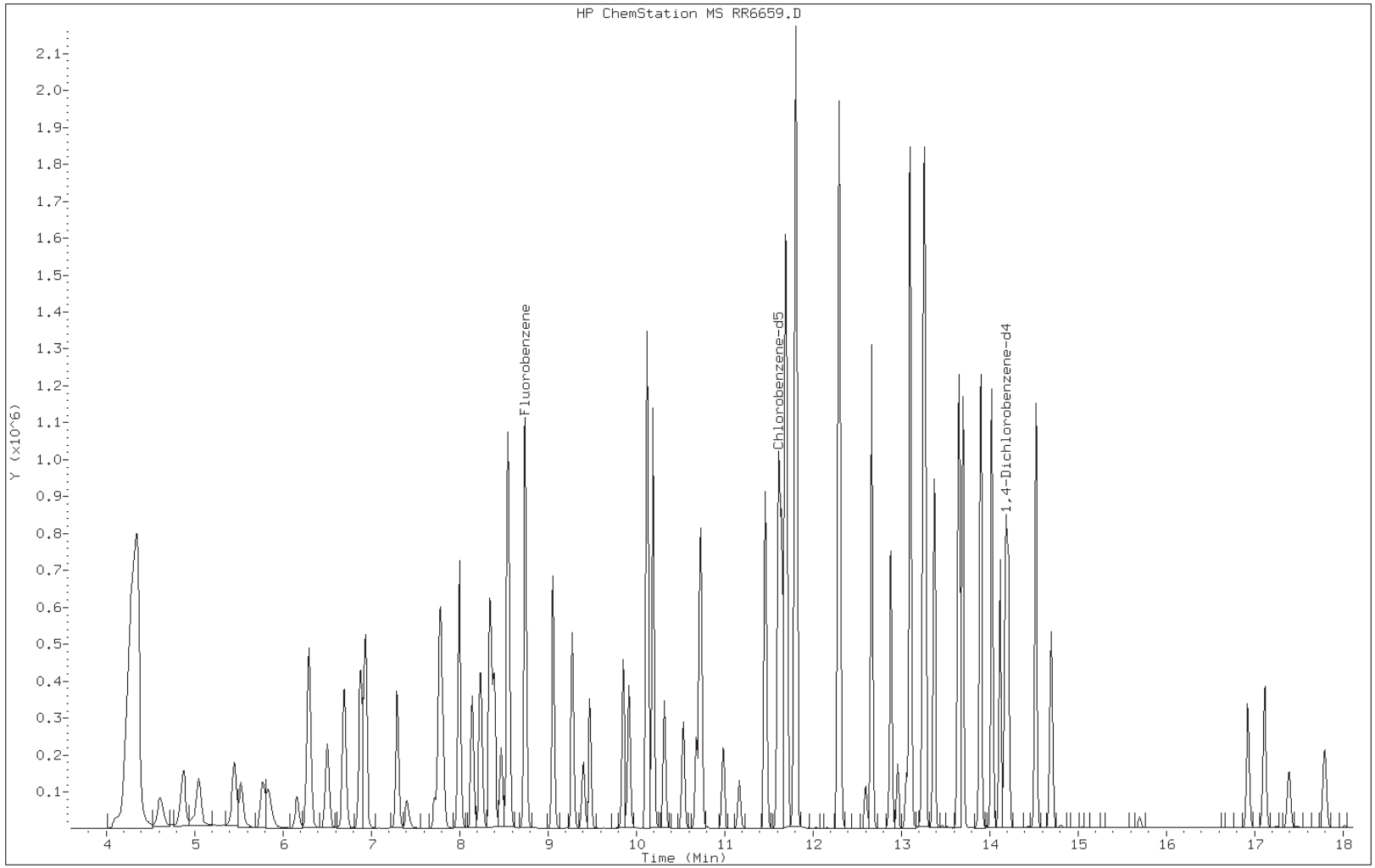
Q - Qualifier signal failed the ratio test.

Data File: RR6659.D

Date: 27-JUN-2011 12:46

Client ID: Instrument: R2.i

Sample Info: ICV,, MA 5uL Operator: DOBRANSKYM



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Lab Sample ID: ICV 280-74138/20 Calibration Date: 06/27/2011 20:47

Instrument ID: MSV_R2 Calib Start Date: 06/27/2011 09:48

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/27/2011 12:01

Lab File ID: RR6680.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0010	0.0010		195	200	-2.4	50.0
2-Chloro-1,3-butadiene	Ave	0.5662	0.4735		8.36	10.0	-16.4	35.0
Propionitrile	Ave	0.0103	0.0103		99.8	100	-0.2	35.0
Methacrylonitrile	Ave	0.0591	0.0606		103	100	2.5	50.0
Isobutyl alcohol	Ave	0.0024	0.0025		209	200	4.7	50.0
1,4-Dioxane	Ave	0.0006	0.0006		200	200	0.2	55.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\RR6680.D
Lab Smp Id: ICV
Inj Date : 27-JUN-2011 20:47
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : ICV,,MB
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\8260B-H2O.m
Meth Date : 27-Jun-2011 20:10 R2.i Quant Type: ISTD
Cal Date : 27-JUN-2011 15:44 Cal File: RR6667.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: icvmb.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	8.741	8.747	(1.000)	1156904	12.5000	
* 85 Chlorobenzene-d5	119	11.614	11.619	(1.000)	222660	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	14.181	14.187	(1.000)	251319	12.5000	
12 Ethanol	45	5.839	5.831	(0.668)	18303	195.244	195.244(a)
38 Chloroprene	53	7.364	7.356	(0.842)	438233	8.36261	8.36261
42 Propionitrile	54	7.797	7.799	(0.892)	95121	99.7915	99.7915
45 Methacrylonitrile	41	7.925	7.926	(0.907)	560416	102.509	102.509
50 Isobutanol	41	8.220	8.222	(0.940)	45994	209.356	209.356
66 1,4-Dioxane	88	9.341	9.333	(1.069)	11830	200.492	200.492

QC Flag Legend

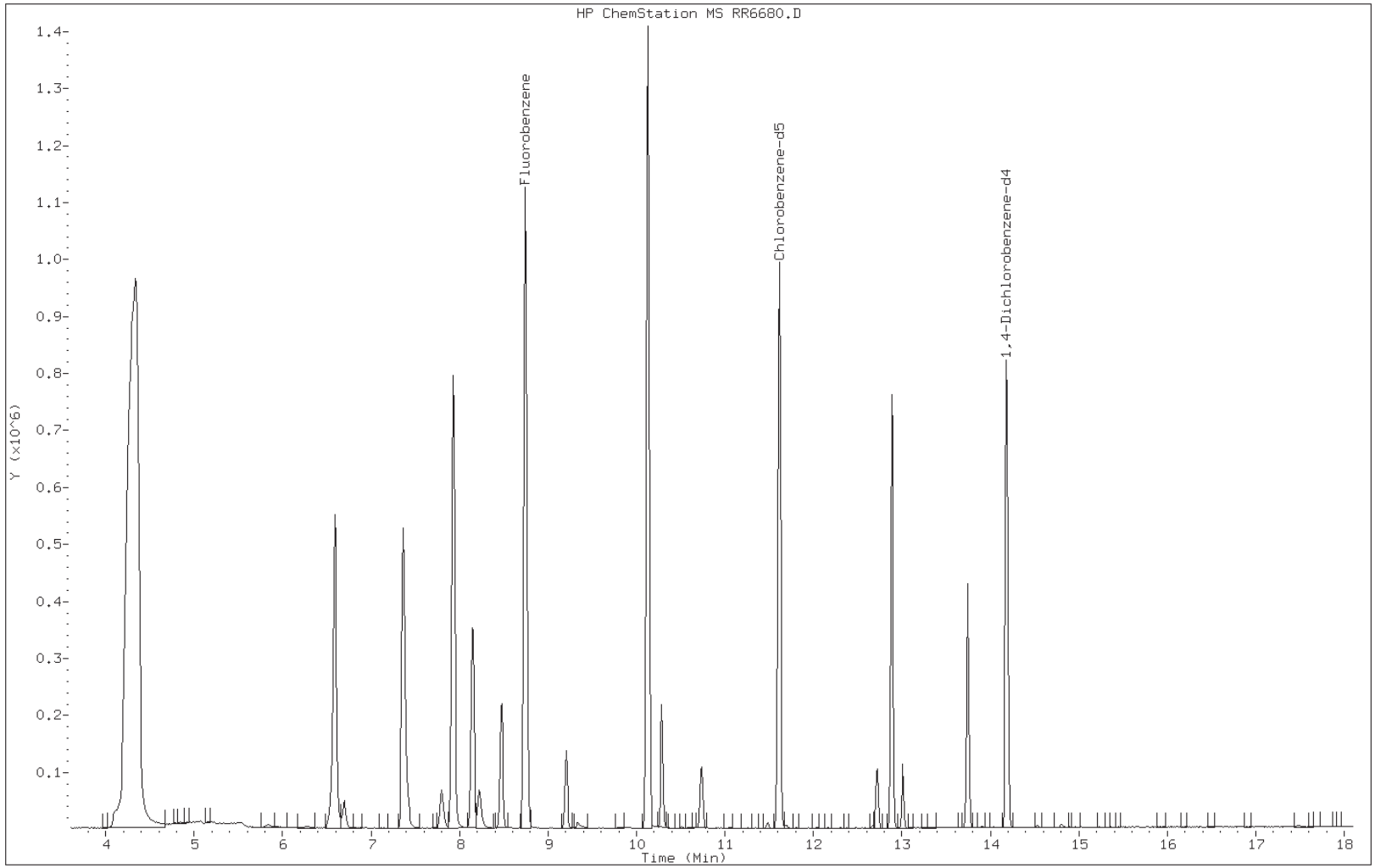
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: RR6680.D

Date: 27-JUN-2011 20:47

Client ID: Instrument: R2.i

Sample Info: ICV,,MB Operator: DOBRANSKYM



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Lab Sample ID: ICV 280-74454/10 Calibration Date: 06/29/2011 09:54

Instrument ID: MSV_R2 Calib Start Date: 06/29/2011 07:18

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/29/2011 09:32

Lab File ID: RR6744.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorofluoromethane	Ave	0.7035	0.6601		9.38	10.0	-6.2	50.0
Isopropyl alcohol	Ave	0.0077	0.0076		197	200	-1.7	50.0
2,2-Dichloro-1,1,1-trifluoro ethane	Ave	0.5344	0.5219		9.76	10.0	-2.4	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2166	0.2122		9.79	10.0	-2.1	35.0
Methyl acetate	Ave	0.0793	0.0762		48.1	50.0	-3.8	55.0
Allyl chloride	Ave	0.6573	0.6402		9.74	10.0	-2.6	35.0
Carbon disulfide	Ave	1.514	1.418		9.37	10.0	-6.3	20.0
Methyl tert-butyl ether	Ave	0.3383	0.3324		9.83	10.0	-1.7	20.0
Hexane	Ave	3.017	2.925		9.70	10.0	-3.0	35.0
Vinyl acetate	Ave	0.3127	0.2903		18.6	20.0	-7.2	55.0
Tert-butyl ethyl ether	Ave	0.5708	0.5639		49.4	50.0	-1.2	35.0
2-Butanol	Ave	0.0066	0.0071		323	300	7.6	50.0
Tetrahydrofuran	Ave	0.0264	0.0264		20.0	20.0	0.0	55.0
Cyclohexane	Ave	0.6521	0.6363		9.76	10.0	-2.4	35.0
Tert-amyl methyl ether	Ave	0.3816	0.3720		48.7	50.0	-2.5	35.0
2-Pentanone	Ave	0.0732	0.0858		46.9	40.0	17.3	55.0
Methyl methacrylate	Ave	0.0257	0.0257		20.0	20.0	0.1	35.0
Methylcyclohexane	Ave	0.5471	0.5120		9.36	10.0	-6.4	35.0
Ethyl methacrylate	Ave	0.7214	0.7019		19.5	20.0	-2.7	35.0
cis-1,4-Dichloro-2-butene	Ave	0.1441	0.1483		10.3	10.0	3.0	55.0
trans-1,4-Dichloro-2-butene	Ave	0.1206	0.1287		10.7	10.0	6.8	55.0
Dibromofluoromethane (Surr)	Ave	0.3234	0.3176		10.3	10.5	-1.8	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2135	0.2075		10.2	10.5	-2.8	35.0
Toluene-d8 (Surr)	Ave	6.016	5.959		10.4	10.5	-0.9	35.0
4-Bromofluorobenzene (Surr)	Ave	1.666	1.566		9.87	10.5	-6.0	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\RR6744.D
Lab Smp Id: ICV
Inj Date : 29-JUN-2011 09:54
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : ICV,, S 5uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\8260B-H2O.m
Meth Date : 29-Jun-2011 11:51 R2.i Quant Type: ISTD
Cal Date : 29-JUN-2011 09:32 Cal File: RR6743.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	8.748	8.747	(1.000)	1058139	12.5000	
* 85 Chlorobenzene-d5	119	11.620	11.620	(1.000)	205943	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	14.188	14.187	(1.000)	229623	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	8.148	8.147	(0.931)	282248	10.3085	10.3085
$ 55 1,2-Dichloroethane-d4	65	8.482	8.482	(0.970)	184440	10.2055	10.2055
$ 73 Toluene-d8	98	10.135	10.134	(0.872)	1030826	10.4006	10.4006
$ 96 4-Bromofluorobenzene (Surr)	95	12.889	12.889	(0.908)	302053	9.87256	9.87256
2 1,2-Dichlorotetrafluoroethane	85	4.793	4.793	(0.548)	283132	24.3031	24.3031
5 Ethylene Oxide	43	5.393	5.393	(0.617)	518543	1226.14	1226.14
8 Dichlorofluoromethane	67	5.698	5.707	(0.651)	558806	9.38393	9.38393
13 1,2-dichloro-1,1,2-trifluoroe	117	5.964	5.963	(0.682)	261834	8.69754	8.69754
17 Propylene Oxide	58	6.111	6.111	(0.699)	827253	531.740	531.740
15 Ethyl Ether	59	5.983	5.983	(0.684)	120937	9.98392	9.98392
16 2,2-dichloro-1,1,1-trifluoroe	83	6.003	6.003	(0.686)	441754	9.76460	9.76460
20 Trichlorotrifluoroethane	151	6.269	6.268	(0.717)	179588	9.79493	9.79493
14 2-propanol	45	5.983	5.983	(0.684)	127892	196.607	196.607
24 Methyl Acetate	43	6.534	6.534	(0.747)	322657	48.0931	48.0931
27 Allyl Chloride	41	6.593	6.593	(0.754)	541943	9.73936	9.73936
28 Carbon Disulfide	76	6.613	6.612	(0.756)	1200617	9.36731	9.36731
32 Methyl t-butyl ether	73	6.888	6.888	(0.787)	281407	9.82756	9.82756
34 Hexane	57	7.105	7.104	(0.611)	481858	9.69503	9.69503
35 Vinyl acetate	43	7.223	7.222	(0.826)	491484	18.5671	18.5671
39 ETBE	59	7.538	7.537	(0.862)	2386917	49.4014	49.4014

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
40 Ethyl Acetate	43	7.695	7.695	(0.880)	172101	17.8175	17.8175
134 2-Butanol	45	7.774	7.763	(0.889)	180539	322.774	322.774
48 Tetrahydrofuran	42	8.039	8.039	(0.919)	44673	19.9993	19.9993
52 Cyclohexane	56	8.315	8.314	(0.951)	538630	9.75767	9.75766
57 TAME	73	8.531	8.531	(0.975)	1574564	48.7494	48.7494
62 2-Pentanone	43	9.122	9.121	(1.043)	290630	46.9236	46.9236
64 Methyl Cyclohexane	55	9.269	9.269	(1.060)	433380	9.35836	9.35836
63 Methyl Methacrylate	100	9.210	9.210	(1.053)	43499	20.0269	20.0269
70 2-nitropropane	41	9.663	9.662	(1.105)	18356	10.1581	10.1581
69 2-Chloroethyl vinyl ether	63	9.633	9.642	(1.101)	33765	10.4952	10.4952
75 Ethyl methacrylate	69	10.292	10.292	(0.886)	231288	19.4587	19.4587
82 Tetrahydrothiophene	60	11.050	11.049	(0.951)	62989	11.4682	11.4682
94 cis-1,4-dichloro-2-butene	53	12.722	12.722	(0.897)	27246	10.2962	10.2962
98 t-1,4-Dichloro-2-butene	53	13.017	13.017	(0.917)	23644	10.6758	10.6758
112 1,2,3-Trimethylbenzene	105	14.227	14.227	(1.003)	740088	9.36483	9.36483
118 Tetralin	104	Compound Not Detected.					

Data File: RR6744.D

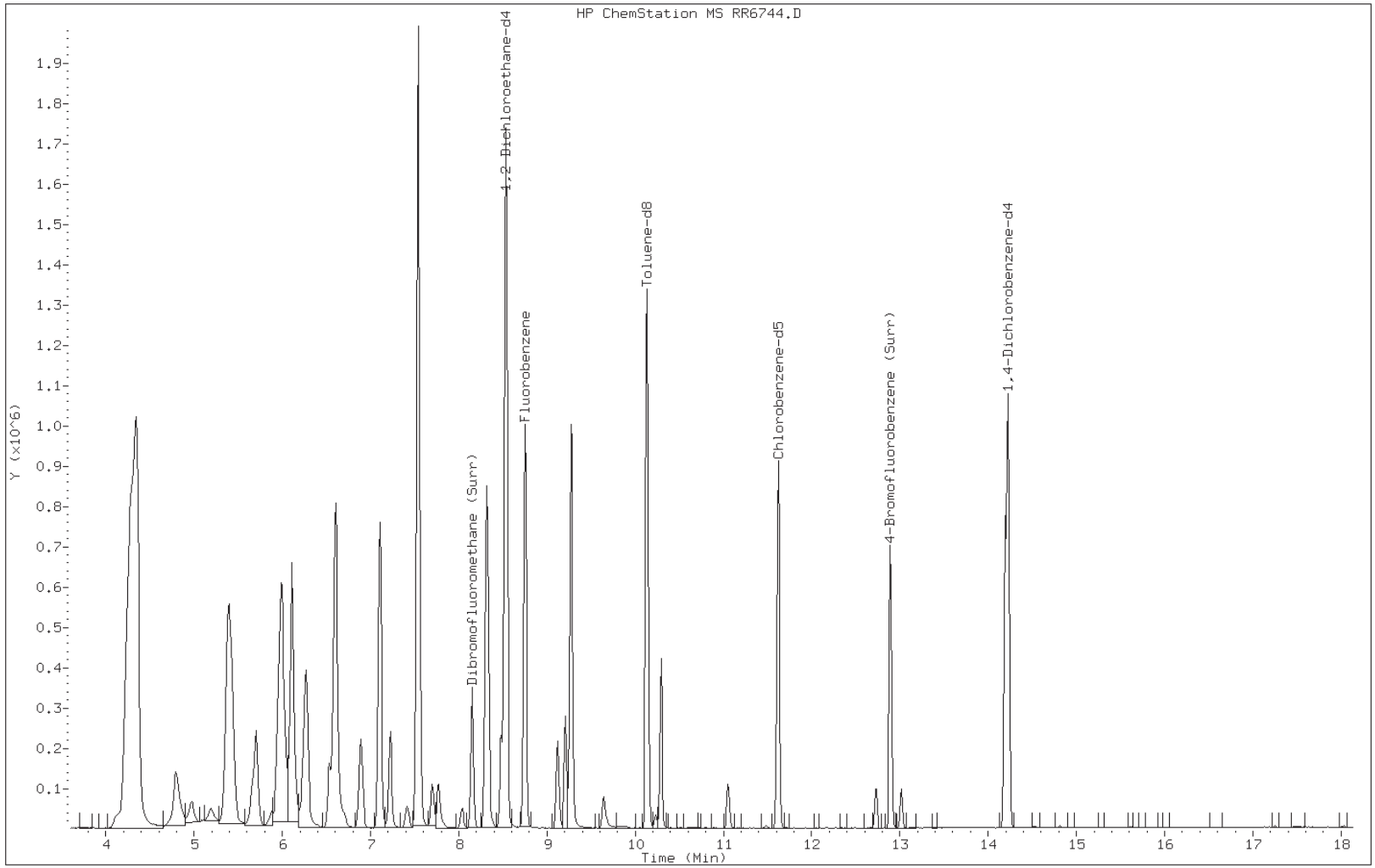
Date: 29-JUN-2011 09:54

Client ID:

Instrument: R2.i

Sample Info: ICV,, S 5uL

Operator: DOBRANSKYM



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Lab Sample ID: CCV 280-75056/2 Calibration Date: 07/02/2011 07:51

Instrument ID: MSV_R2 Calib Start Date: 06/27/2011 09:48

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/27/2011 12:01

Lab File ID: RR6926.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2508	0.2720		10.8	10.0	8.4	20.0
Chloromethane	Ave	0.4077	0.4128	0.1000	10.1	10.0	1.2	20.0
Vinyl chloride	Ave	0.3222	0.3383		10.5	10.0	5.0	20.0
Bromomethane	Ave	0.2356	0.2379		10.1	10.0	1.0	20.0
Chloroethane	Ave	0.1896	0.1955		10.3	10.0	3.1	20.0
Trichlorofluoromethane	Ave	0.4091	0.4065		9.94	10.0	-0.6	20.0
Acetone	Lin	0.0314	0.0240		38.4	40.0	-4.1	20.0
2-Butanone (MEK)	Ave	0.0382	0.0374		39.2	40.0	-2.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0827	0.0773		37.4	40.0	-6.5	20.0
2-Hexanone	Ave	0.3020	0.2689		35.6	40.0	-11.0	20.0
Cyclohexanone	Ave	0.0121	0.0115		380	400	-5.1	50.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\RR6926.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 02-JUL-2011 07:51
Operator : MEIERG Inst ID: R2.i
Smp Info : CCV,,M
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\8260B-H2O.m
Meth Date : 03-Jul-2011 11:11 R2.i Quant Type: ISTD
Cal Date : 29-JUN-2011 09:32 Cal File: RR6743.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-gas+Ketones.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

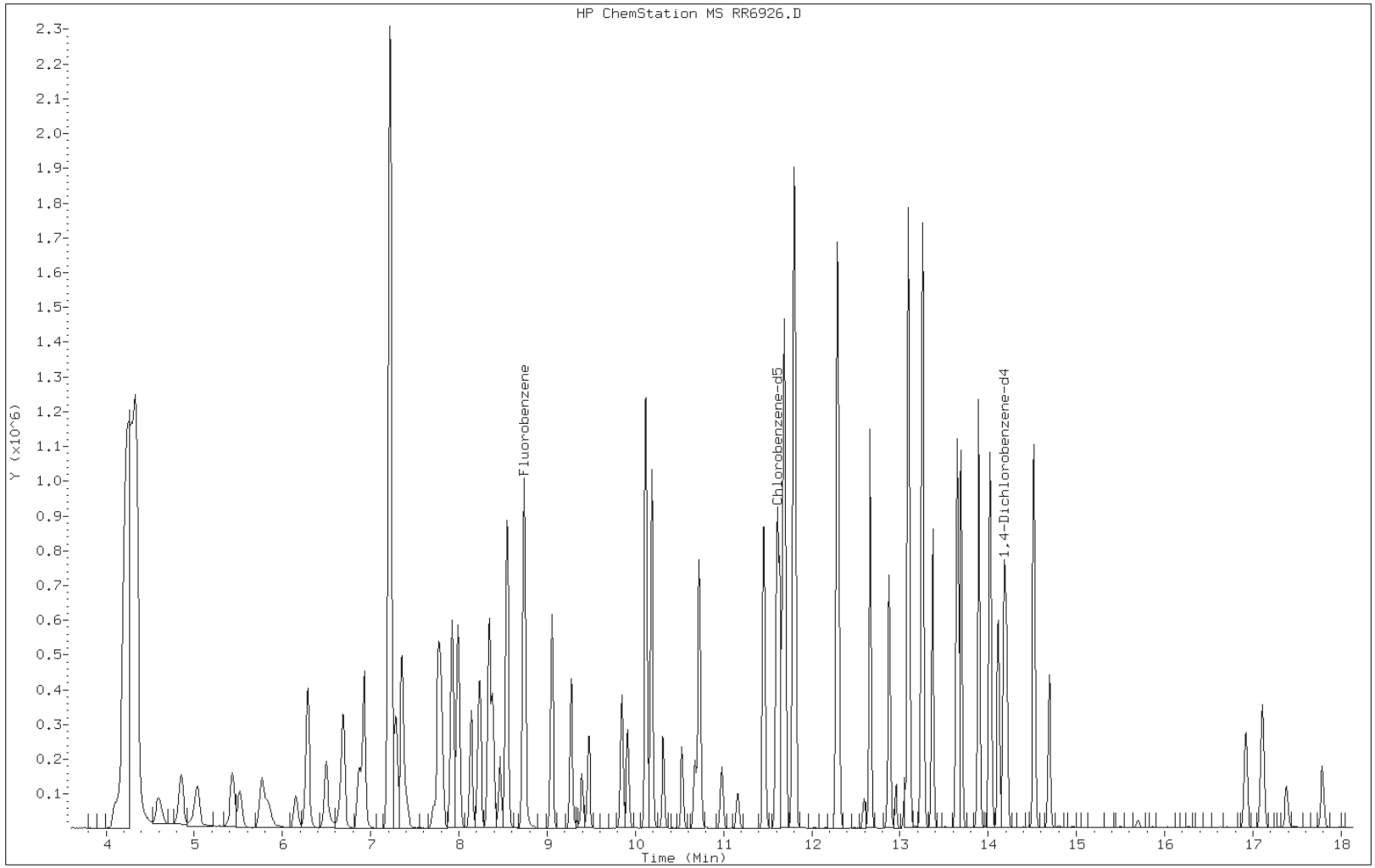
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 59 Fluorobenzene	96	8.737	8.737	(1.000)	1039629	12.5000	
* 85 Chlorobenzene-d5	119	11.610	11.610	(1.000)	203571	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	14.177	14.177	(1.000)	211730	12.5000	
1 dichlorodifluoromethane	85	4.596	4.596	(0.526)	226232	10.0000	10.8441
3 Chloromethane	50	4.851	4.851	(0.555)	343318	10.0000	10.1237
4 Vinyl Chloride	62	5.038	5.038	(0.577)	281390	10.0000	10.4997
6 Bromomethane	94	5.432	5.432	(0.622)	197897	10.0000	10.0994
7 Chloroethane	64	5.520	5.520	(0.632)	162572	10.0000	10.3108
11 Trichlorofluoromethane	101	5.766	5.766	(0.660)	338108	10.0000	9.93640
19 Acetone	43	6.268	6.268	(0.717)	79959	40.0000	38.3661
41 2-Butanone	43	7.714	7.714	(0.883)	124392	40.0000	39.1765
72 4-Methyl-2-pentanone	43	9.918	9.918	(1.135)	257110	40.0000	37.3865
78 2-Hexanone	43	10.675	10.675	(0.920)	175193	40.0000	35.6164
95 Cyclohexanone	55	12.869	12.869	(1.108)	74962	400.000	379.614

Data File: RR6926.D

Date: 02-JUL-2011 07:51

Client ID: CCV Instrument: R2.i

Sample Info: CCV,,M Operator: MEIERG



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Lab Sample ID: CCV 280-75056/3 Calibration Date: 07/02/2011 08:13

Instrument ID: MSV_R2 Calib Start Date: 06/29/2011 07:18

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/29/2011 09:32

Lab File ID: RR6927.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorofluoromethane	Ave	0.7035	0.6497		9.24	10.0	-7.6	50.0
Isopropyl alcohol	Ave	0.0077	0.0074		193	200	-3.4	50.0
2,2-Dichloro-1,1,1-trifluoro ethane	Ave	0.5344	0.5067		9.48	10.0	-5.2	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2166	0.2099		9.69	10.0	-3.1	50.0
Methyl acetate	Ave	0.0793	0.0681		43.0	50.0	-14.0	50.0
Allyl chloride	Ave	0.6573	0.5887		8.96	10.0	-10.4	35.0
Carbon disulfide	Ave	1.514	1.378		9.10	10.0	-9.0	20.0
Methyl tert-butyl ether	Ave	0.3383	0.2879		8.51	10.0	-14.9	20.0
Hexane	Ave	3.017	2.861		9.48	10.0	-5.2	35.0
Vinyl acetate	Ave	0.3127	0.2663		17.0	20.0	-14.9	50.0
Tert-butyl ethyl ether	Ave	0.5708	0.5081		44.5	50.0	-11.0	35.0
2-Butanol	Ave	0.0066	0.0058		263	300	-12.4	50.0
Tetrahydrofuran	Ave	0.0264	0.0231		17.5	20.0	-12.4	50.0
Cyclohexane	Ave	0.6521	0.6377		9.78	10.0	-2.2	35.0
Tert-amyl methyl ether	Ave	0.3816	0.3311		43.4	50.0	-13.2	35.0
2-Pentanone	Ave	0.0732	0.0625		34.2	40.0	-14.5	50.0
Methyl methacrylate	Ave	0.0257	0.0235		18.3	20.0	-8.5	35.0
Methylcyclohexane	Ave	0.5471	0.5481		10.0	10.0	0.2	35.0
Ethyl methacrylate	Ave	0.7214	0.6412		17.8	20.0	-11.1	35.0
cis-1,4-Dichloro-2-butene	Ave	0.1441	0.1253		8.70	10.0	-13.0	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1206	0.0984		8.16	10.0	-18.4	50.0
Dibromofluoromethane (Surr)	Ave	0.3234	0.3259		10.6	10.5	0.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2135	0.1999		9.83	10.5	-6.4	20.0
Toluene-d8 (Surr)	Ave	6.016	6.498		11.3	10.5	8.0	20.0
4-Bromofluorobenzene (Surr)	Ave	1.666	1.644		10.4	10.5	-1.3	20.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\RR6927.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 02-JUL-2011 08:13
Operator : MEIERG Inst ID: R2.i
Smp Info : CCV,,S
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\8260B-H2O.m
Meth Date : 03-Jul-2011 11:11 R2.i Quant Type: ISTD
Cal Date : 29-JUN-2011 09:32 Cal File: RR6743.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	8.733	8.733	(1.000)	1039364	12.5000	
* 85 Chlorobenzene-d5	119	11.606	11.606	(1.000)	199247	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	14.183	14.183	(1.000)	216358	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	8.143	8.143	(0.932)	284503	10.0000	10.5785
$ 55 1,2-Dichloroethane-d4	65	8.468	8.468	(0.970)	174495	10.0000	9.82961
$ 73 Toluene-d8	98	10.120	10.120	(0.872)	1087614	10.0000	11.3423
$ 96 4-Bromofluorobenzene (Surr)	95	12.885	12.885	(0.908)	298752	10.0000	10.3633
2 1,2-Dichlorotetrafluoroethane	85	4.779	4.779	(0.547)	103529	10.0000	9.04712
5 Ethylene Oxide	43	5.388	5.388	(0.617)	430696	1250.00	1036.82
8 Dichlorofluoromethane	67	5.693	5.693	(0.652)	540252	10.0000	9.23624
13 1,2-dichloro-1,1,2-trifluoroe	117	5.959	5.959	(0.682)	278468	10.0000	9.41718
17 Propylene Oxide	58	6.097	6.097	(0.698)	584650	500.000	382.589
15 Ethyl Ether	59	5.979	5.979	(0.685)	105414	10.0000	8.85962
16 2,2-dichloro-1,1,1-trifluoroe	83	5.998	5.998	(0.687)	421318	10.0000	9.48111
20 Trichlorotrifluoroethane	151	6.254	6.254	(0.716)	174513	10.0000	9.69007
14 2-propanol	45	5.979	5.979	(0.685)	123408	200.000	193.141
24 Methyl Acetate	43	6.520	6.520	(0.747)	283219	50.0000	42.9773
27 Allyl Chloride	41	6.579	6.579	(0.753)	489457	10.0000	8.95502
28 Carbon Disulfide	76	6.598	6.598	(0.756)	1145376	10.0000	9.09774
32 Methyl t-butyl ether	73	6.884	6.884	(0.788)	239360	10.0000	8.51015
34 Hexane	57	7.090	7.090	(0.611)	456077	10.0000	9.48470
35 Vinyl acetate	43	7.208	7.208	(0.825)	442769	20.0000	17.0290

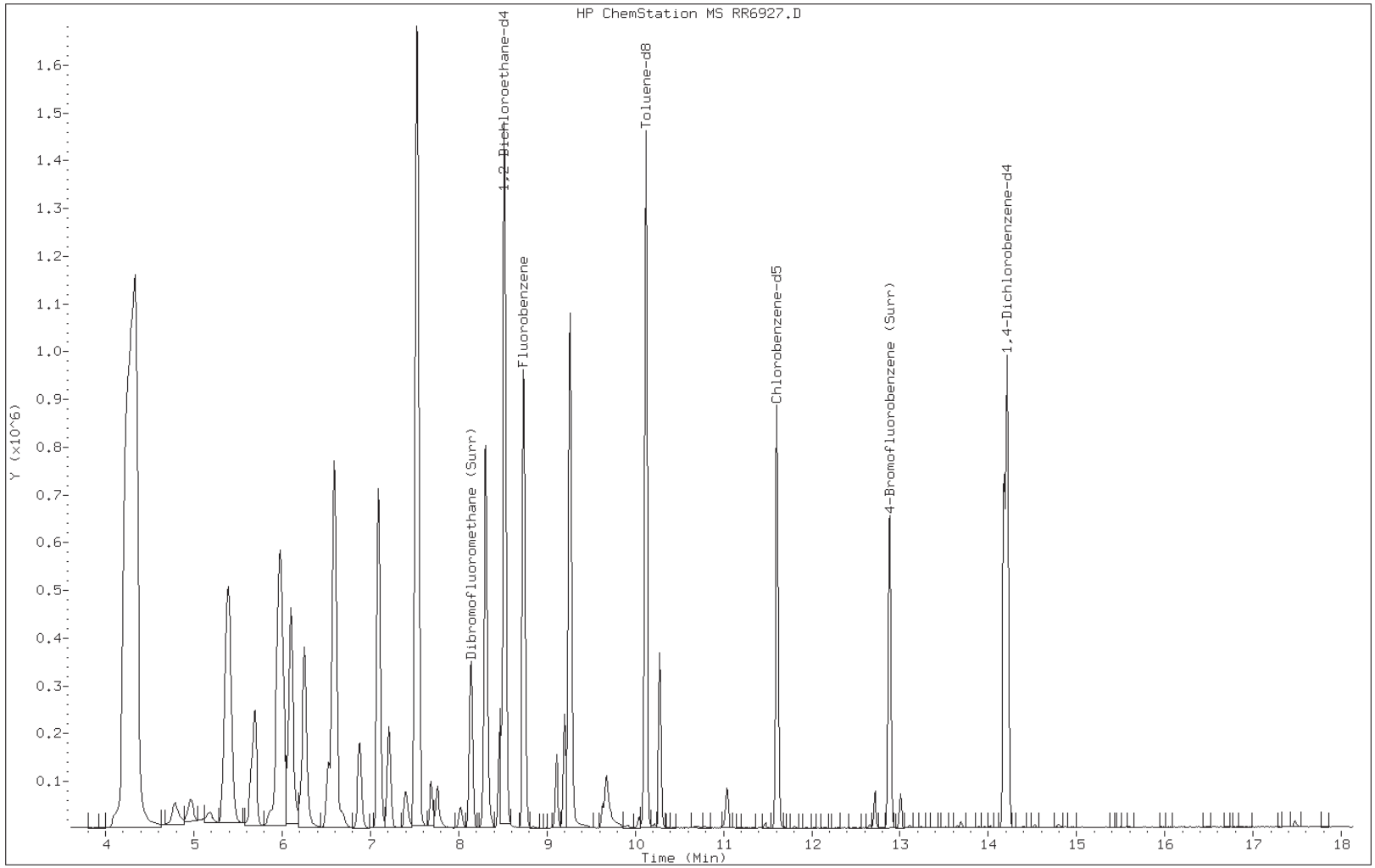
		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39	ETBE	59	7.523	7.523	(0.861)	2112288	50.0000	44.5072
40	Ethyl Acetate	43	7.690	7.690	(0.881)	150214	20.0000	15.8325
134	2-Butanol	45	7.759	7.759	(0.888)	144533	300.000	263.069
48	Tetrahydrofuran	42	8.025	8.025	(0.919)	38451	20.0000	17.5248
52	Cyclohexane	56	8.310	8.310	(0.952)	530197	10.0000	9.77840
57	TAME	73	8.517	8.517	(0.975)	1376719	50.0000	43.3940
62	2-Pentanone	43	9.107	9.107	(1.043)	207956	40.0000	34.1820
64	Methyl Cyclohexane	55	9.264	9.264	(1.061)	455721	10.0000	10.0186
63	Methyl Methacrylate	100	9.196	9.196	(1.053)	39039	20.0000	18.2982
70	2-nitropropane	41	9.658	9.658	(1.106)	27016	10.0000	15.2205
69	2-Chloroethyl vinyl ether	63	9.628	9.628	(1.103)	21176	10.0000	6.70106
75	Ethyl methacrylate	69	10.278	10.278	(0.886)	204398	20.0000	17.7743
82	Tetrahydrothiophene	60	11.035	11.035	(0.951)	45782	10.0000	8.61553
94	cis-1,4-dichloro-2-butene	53	12.717	12.717	(0.897)	21683	10.0000	8.69634
98	t-1,4-Dichloro-2-butene	53	13.003	13.003	(0.917)	17025	10.0000	8.15850
112	1,2,3-Trimethylbenzene	105	14.213	14.213	(1.002)	673469	10.0000	9.04433
118	Tetralin	104	Compound Not Detected.					

Data File: RR6927.D

Date: 02-JUL-2011 08:13

Client ID: CCV Instrument: R2.i

Sample Info: CCV,,S Operator: MEIERG



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Lab Sample ID: CCV 280-75056/4 Calibration Date: 07/02/2011 08:35

Instrument ID: MSV_R2 Calib Start Date: 06/27/2011 09:48

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/27/2011 12:01

Lab File ID: RR6928.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.3270	0.3246		19.8	20.0	-0.7	35.0
Xylenes, Total	Ave	2.530	2.548		30.2	30.0	0.7	35.0
Ethanol	Ave	0.0010	0.0010		473	500	-5.3	50.0
1,1-Dichloroethene	Ave	0.3014	0.3125		10.4	10.0	3.7	20.0
Iodomethane	Ave	0.4518	0.4508		9.98	10.0	-0.2	35.0
Acetonitrile	Ave	0.0095	0.0089		94.0	100	-6.0	50.0
2-Methyl-2-propanol	Ave	0.0059	0.0056		190	200	-4.8	50.0
Methylene Chloride	Lin	0.2888	0.2578		10.1	10.0	0.9	20.0
Acrylonitrile	Ave	0.0296	0.0286		96.5	100	-3.5	50.0
trans-1,2-Dichloroethene	Ave	0.3348	0.3411		10.2	10.0	1.9	20.0
1,1-Dichloroethane	Ave	0.5807	0.5579	0.1000	9.61	10.0	-3.9	20.0
2-Chloro-1,3-butadiene	Ave	0.5662	0.5876		10.4	10.0	3.8	35.0
cis-1,2-Dichloroethene	Ave	0.3192	0.3081		9.65	10.0	-3.5	20.0
Propionitrile	Ave	0.0103	0.0097		94.3	100	-5.7	50.0
2,2-Dichloropropane	Ave	0.3847	0.4034		10.5	10.0	4.9	20.0
Methacrylonitrile	Ave	0.0591	0.0581		98.3	100	-1.7	50.0
Chlorobromomethane	Ave	0.1049	0.1012		9.64	10.0	-3.6	20.0
Chloroform	Ave	0.4942	0.4576		9.26	10.0	-7.4	20.0
Isobutyl alcohol	Ave	0.0024	0.0024		202	200	1.2	50.0
1,1,1-Trichloroethane	Ave	0.4397	0.4590		10.4	10.0	4.4	20.0
1,1-Dichloropropene	Ave	0.4466	0.4626		10.4	10.0	3.6	20.0
Carbon tetrachloride	Ave	0.3832	0.3992		10.4	10.0	4.2	20.0
1,2-Dichloroethane	Ave	0.2233	0.2065		9.25	10.0	-7.5	20.0
Benzene	Ave	1.172	1.119		9.55	10.0	-4.5	20.0
Trichloroethene	Ave	0.3246	0.3294		10.1	10.0	1.5	20.0
1,2-Dichloropropane	Ave	0.2692	0.2585		9.60	10.0	-4.0	20.0
1,4-Dioxane	Ave	0.0006	0.0006		499	500	-0.1	50.0
Dibromomethane	Ave	0.1031	0.1019		9.88	10.0	-1.2	20.0
Dichlorobromomethane	Ave	0.2880	0.2729		9.48	10.0	-5.2	20.0
cis-1,3-Dichloropropene	Ave	0.3401	0.3158		9.29	10.0	-7.1	20.0
Toluene	Ave	1.171	1.169		9.98	10.0	-0.2	20.0
trans-1,3-Dichloropropene	Ave	0.2306	0.2148		9.31	10.0	-6.9	20.0
1,1,2-Trichloroethane	Ave	0.1183	0.1152		9.73	10.0	-2.7	20.0
1,3-Dichloropropane	Ave	1.076	1.038		9.65	10.0	-3.5	20.0
Tetrachloroethene	Ave	1.160	1.182		10.2	10.0	1.8	20.0
Chlorodibromomethane	Ave	0.8374	0.8115		9.69	10.0	-3.1	20.0
Ethylene Dibromide	Ave	0.6524	0.6264		9.60	10.0	-4.0	20.0
1-Chlorohexane	Ave	2.417	2.512		10.4	10.0	3.9	35.0
Chlorobenzene	Ave	3.772	3.544	0.3000	9.40	10.0	-6.0	20.0
1,1,1,2-Tetrachloroethane	Ave	1.076	1.013		9.42	10.0	-5.8	20.0
Ethylbenzene	Ave	2.097	2.100		10.0	10.0	0.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Lab Sample ID: CCV 280-75056/4 Calibration Date: 07/02/2011 08:35

Instrument ID: MSV_R2 Calib Start Date: 06/27/2011 09:48

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/27/2011 12:01

Lab File ID: RR6928.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
m-Xylene & p-Xylene	Ave	2.623	2.653		20.2	20.0	1.1	20.0
o-Xylene	Ave	2.345	2.339		9.97	10.0	-0.3	20.0
Styrene	Ave	3.428	3.415		9.96	10.0	-0.4	20.0
Bromoform	Ave	0.3401	0.3232	0.1000	9.50	10.0	-5.0	20.0
Isopropylbenzene	Ave	6.056	6.175		10.2	10.0	2.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5876	0.5629	0.3000	9.58	10.0	-4.2	20.0
1,2,3-Trichloropropane	Ave	0.1338	0.1324		9.90	10.0	-1.0	20.0
N-Propylbenzene	Ave	1.707	1.736		10.2	10.0	1.7	20.0
Bromobenzene	Ave	1.072	1.013		9.44	10.0	-5.6	20.0
1,3,5-Trimethylbenzene	Ave	5.088	5.101		10.0	10.0	0.2	20.0
2-Chlorotoluene	Ave	1.386	1.354		9.77	10.0	-2.3	20.0
4-Chlorotoluene	Ave	1.374	1.323		9.63	10.0	-3.7	20.0
tert-Butylbenzene	Ave	4.603	4.590		9.97	10.0	-0.3	20.0
1,2,4-Trimethylbenzene	Ave	4.960	4.817		9.71	10.0	-2.9	20.0
sec-Butylbenzene	Ave	1.197	1.204		10.1	10.0	0.6	20.0
4-Isopropyltoluene	Ave	5.514	5.602		10.2	10.0	1.6	20.0
1,3-Dichlorobenzene	Ave	2.151	2.009		9.34	10.0	-6.6	20.0
1,4-Dichlorobenzene	Ave	1.991	1.877		9.43	10.0	-5.7	20.0
n-Butylbenzene	Lin1	5.425	5.401		11.3	10.0	12.9	20.0
1,2-Dichlorobenzene	Ave	1.608	1.491		9.27	10.0	-7.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0619	0.0552		8.91	10.0	-10.9	20.0
1,2,4-Trichlorobenzene	Ave	0.9276	0.7915		8.53	10.0	-14.7	20.0
Hexachlorobutadiene	Ave	0.7276	0.6850		9.41	10.0	-5.9	20.0
Naphthalene	Ave	1.125	0.9455		8.41	10.0	-15.9	20.0
1,2,3-Trichlorobenzene	Ave	0.6478	0.5633		8.70	10.0	-13.0	20.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\RR6928.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 02-JUL-2011 08:35
Operator : MEIERG Inst ID: R2.i
Smp Info : CCV,,M
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\8260B-H2O.m
Meth Date : 03-Jul-2011 11:11 R2.i Quant Type: ISTD
Cal Date : 29-JUN-2011 09:32 Cal File: RR6743.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main-GK.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
*	59 Fluorobenzene	96	8.737	8.737	(1.000)	1098965	12.5000	
*	85 Chlorobenzene-d5	119	11.610	11.610	(1.000)	208393	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	14.177	14.177	(1.000)	214736	12.5000	
M	9 1,2-Dichloroethene (total)	96				570783	20.0000	19.8399
M	25 Trihalomethanes (total)	100				831380	40.0000	37.9280
M	26 1,3-Dichloropropene (total)	100				466430	20.0000	18.5992
M	10 Xylene (total)	106				1274493	30.0000	30.2016
	12 Ethanol	45	5.825	5.825	(0.667)	42149	500.000	473.322
	21 1,1-Dichloroethene	96	6.288	6.288	(0.720)	274718	10.0000	10.3670
	22 Iodomethane	142	6.494	6.494	(0.743)	396338	10.0000	9.97913
	23 Acetonitrile	41	6.543	6.543	(0.749)	78278	100.000	93.9789
	29 tert-Butyl alcohol	59	6.652	6.652	(0.761)	98924	200.000	190.458(Q)
	30 Methylene Chloride	84	6.691	6.691	(0.766)	226679	10.0000	10.0885
	31 Acrylonitrile	53	6.868	6.868	(0.786)	251460	100.000	96.4943
	33 trans-1,2-Dichloroethene	96	6.927	6.927	(0.793)	299890	10.0000	10.1884
	36 Isopropyl ether	87	7.222	7.222	(0.827)	669723	50.0000	48.1726
	37 1,1-Dichloroethane	63	7.291	7.291	(0.834)	490450	10.0000	9.60727
	38 Chloroprene	53	7.360	7.360	(0.842)	516582	10.0000	10.3774
	43 cis-1,2-Dichloroethene	96	7.763	7.763	(0.889)	270893	10.0000	9.65150
	42 Propionitrile	54	7.793	7.793	(0.892)	85348	100.000	94.2592
	44 2,2-Dichloropropane	77	7.803	7.803	(0.893)	354681	10.0000	10.4871
	45 Methacrylonitrile	41	7.921	7.921	(0.907)	510335	100.000	98.2700

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
46	Bromochloromethane	128	7.989	7.989	(0.914)	88933	10.0000	9.64097
47	Chloroform	83	7.999	7.999	(0.916)	402316	10.0000	9.25941
51	1,1,1-Trichloroethane	97	8.235	8.235	(0.943)	403554	10.0000	10.4398
50	Isobutanol	41	8.216	8.216	(0.940)	42225	200.000	202.333
53	1,1-Dichloropropene	75	8.344	8.344	(0.955)	406729	10.0000	10.3598
54	Carbon Tetrachloride	117	8.383	8.383	(0.959)	350924	10.0000	10.4153
56	1,2-Dichloroethane	62	8.531	8.531	(0.976)	181539	10.0000	9.24820
58	Benzene	78	8.550	8.550	(0.979)	983522	10.0000	9.54806
60	n-Butanol	56	8.767	8.767	(1.003)	50559	300.000	267.181
61	Trichloroethene	95	9.052	9.052	(1.036)	289605	10.0000	10.1485
65	1,2-Dichloropropane	63	9.268	9.268	(1.061)	227299	10.0000	9.60406
66	1,4-Dioxane	88	9.337	9.337	(1.069)	27986	500.000	499.307
67	Dibromomethane	93	9.396	9.396	(1.075)	89566	10.0000	9.87743
68	Bromodichloromethane	83	9.475	9.475	(1.084)	239904	10.0000	9.47536
71	cis-1,3-Dichloropropene	75	9.849	9.849	(1.127)	277618	10.0000	9.28539
74	Toluene	91	10.183	10.183	(1.166)	1027338	10.0000	9.97956
76	trans-1,3-Dichloropropene	75	10.311	10.311	(1.180)	188812	10.0000	9.31386
77	1,1,2-Trichloroethane	97	10.528	10.528	(1.205)	101262	10.0000	9.73499
79	1,3-Dichloropropane	76	10.714	10.714	(0.923)	172979	10.0000	9.64708
80	Tetrachloroethene	164	10.734	10.734	(0.925)	196990	10.0000	10.1842
81	Dibromochloromethane	129	10.980	10.980	(0.946)	135281	10.0000	9.69038
83	1,2-Dibromoethane	107	11.157	11.157	(0.961)	104430	10.0000	9.60159
84	1-Chlorohexane	91	11.462	11.462	(0.987)	419064	10.0000	10.3979
86	Chlorobenzene	112	11.639	11.639	(1.003)	590917	10.0000	9.39661
87	1,1,1,2-Tetrachloroethane	131	11.688	11.688	(1.007)	168891	10.0000	9.41730
88	Ethylbenzene	106	11.688	11.688	(1.007)	350053	10.0000	10.0134
89	m and p-Xylene	106	11.797	11.797	(1.016)	884574	20.0000	20.2273
90	o-Xylene	106	12.288	12.288	(1.058)	389919	10.0000	9.97436
91	Styrene	104	12.298	12.298	(1.059)	569276	10.0000	9.96097
92	Bromoform	173	12.593	12.593	(1.085)	53879	10.0000	9.50281
93	isopropyl benzene	105	12.662	12.662	(0.893)	1060720	10.0000	10.1965
97	1,1,2,2-Tetrachloroethane	83	12.957	12.957	(0.914)	96702	10.0000	9.57965
99	1,2,3-Trichloropropane	110	13.056	13.056	(0.921)	22752	10.0000	9.90005
100	Bromobenzene	156	13.105	13.105	(0.924)	173975	10.0000	9.44403
101	n-Propylbenzene	120	13.095	13.095	(0.924)	298142	10.0000	10.1660
103	2-Chlorotoluene	126	13.262	13.262	(0.935)	232615	10.0000	9.76754
102	1,3,5-Trimethylbenzene	105	13.243	13.243	(0.934)	876299	10.0000	10.0250
104	4-Chlorotoluene	126	13.371	13.371	(0.943)	227263	10.0000	9.62609
105	tert-Butylbenzene	119	13.646	13.646	(0.963)	788453	10.0000	9.97025
106	1,2,4-Trimethylbenzene	105	13.695	13.695	(0.966)	827458	10.0000	9.71083(Q)
107	sec-Butylbenzene	134	13.892	13.892	(0.980)	206865	10.0000	10.0636
108	4-Isopropyltoluene	119	14.020	14.020	(0.989)	962410	10.0000	10.1606
109	1,3-Dichlorobenzene	146	14.118	14.118	(0.996)	345200	10.0000	9.34069
111	1,4-dichlorobenzene	146	14.207	14.207	(1.002)	322482	10.0000	9.42825
113	n-Butylbenzene	91	14.522	14.522	(1.024)	927889	10.0000	11.2933
114	1,2-Dichlorobenzene	146	14.689	14.689	(1.036)	256108	10.0000	9.26962
115	1,2-Dibromo-3-chloropropane	157	15.702	15.702	(1.108)	9478	10.0000	8.91391
116	1,2,4-Trichlorobenzene	180	16.922	16.922	(1.194)	135971	10.0000	8.53266
117	Hexachlorobutadiene	225	17.109	17.109	(1.207)	117676	10.0000	9.41489
119	Naphthalene	128	17.384	17.384	(1.226)	162430	10.0000	8.40700
120	1,2,3-Trichlorobenzene	180	17.788	17.788	(1.255)	96774	10.0000	8.69620

QC Flag Legend

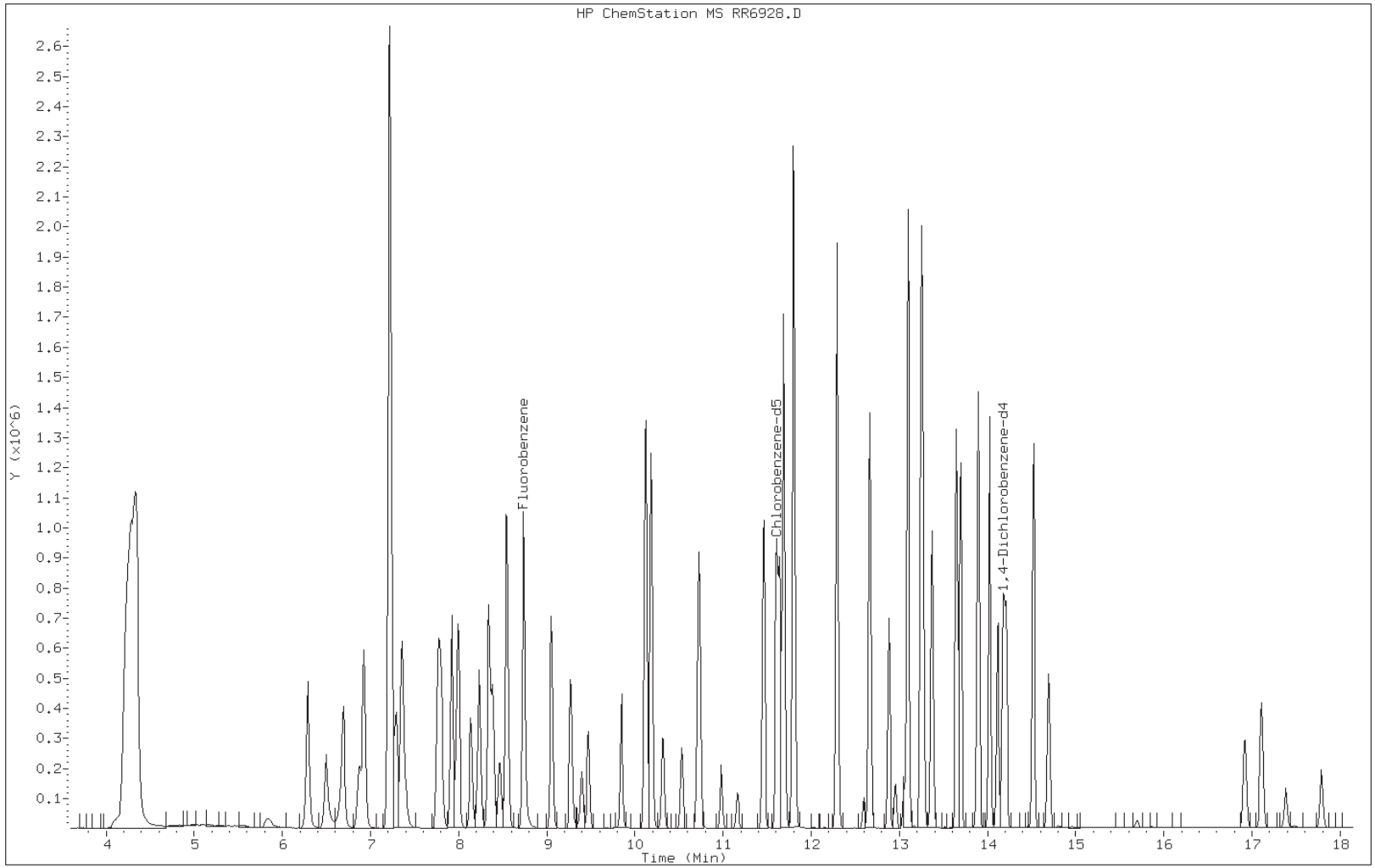
Q - Qualifier signal failed the ratio test.

Data File: RR6928.D

Date: 02-JUL-2011 08:35

Client ID: CCV Instrument: R2.i

Sample Info: CCV,,M Operator: MEIERG



TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\RR6649.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 27-JUN-2011 09:16
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : BFB,,1uL
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\bfb390.m
Meth Date : 20-Dec-2010 18:53 target Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC251

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.843	5.620	(0.000)	95	43888			0.00- 100.00	100.00
5.843	5.620	(0.000)	50	9138			15.00- 40.00	20.82
5.843	5.620	(0.000)	75	19632			30.00- 60.00	44.73
5.843	5.620	(0.000)	96	3151			5.00- 9.00	7.18
5.843	5.620	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
5.843	5.620	(0.000)	174	32464			50.00- 0.00	73.97
5.843	5.620	(0.000)	175	2579			5.00- 9.00	7.94
5.843	5.620	(0.000)	176	31336			95.00- 101.00	96.53
5.843	5.620	(0.000)	177	2215			5.00- 9.00	7.07

Data File: RR6649.D

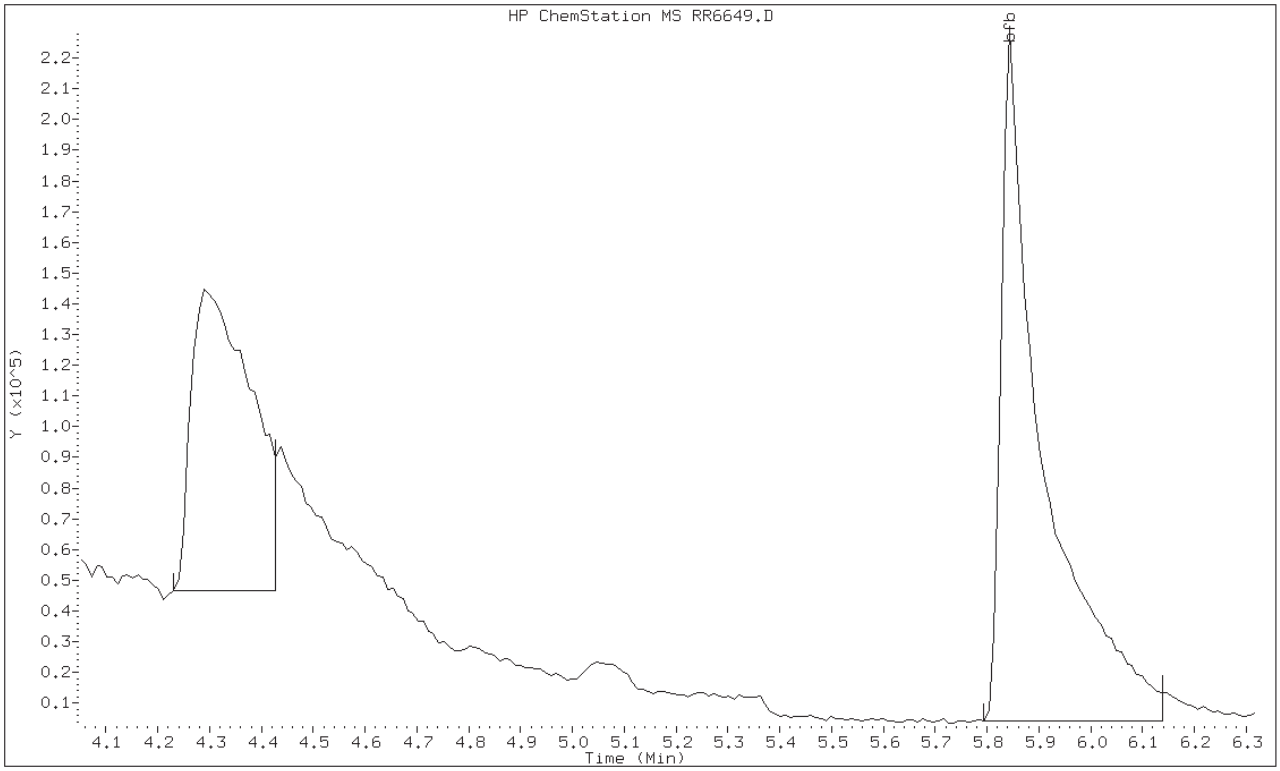
Date: 27-JUN-2011 09:16

Client ID: BFB

Instrument: R2.i

Sample Info: BFB,,1uL

Operator: DOBRANSKYM



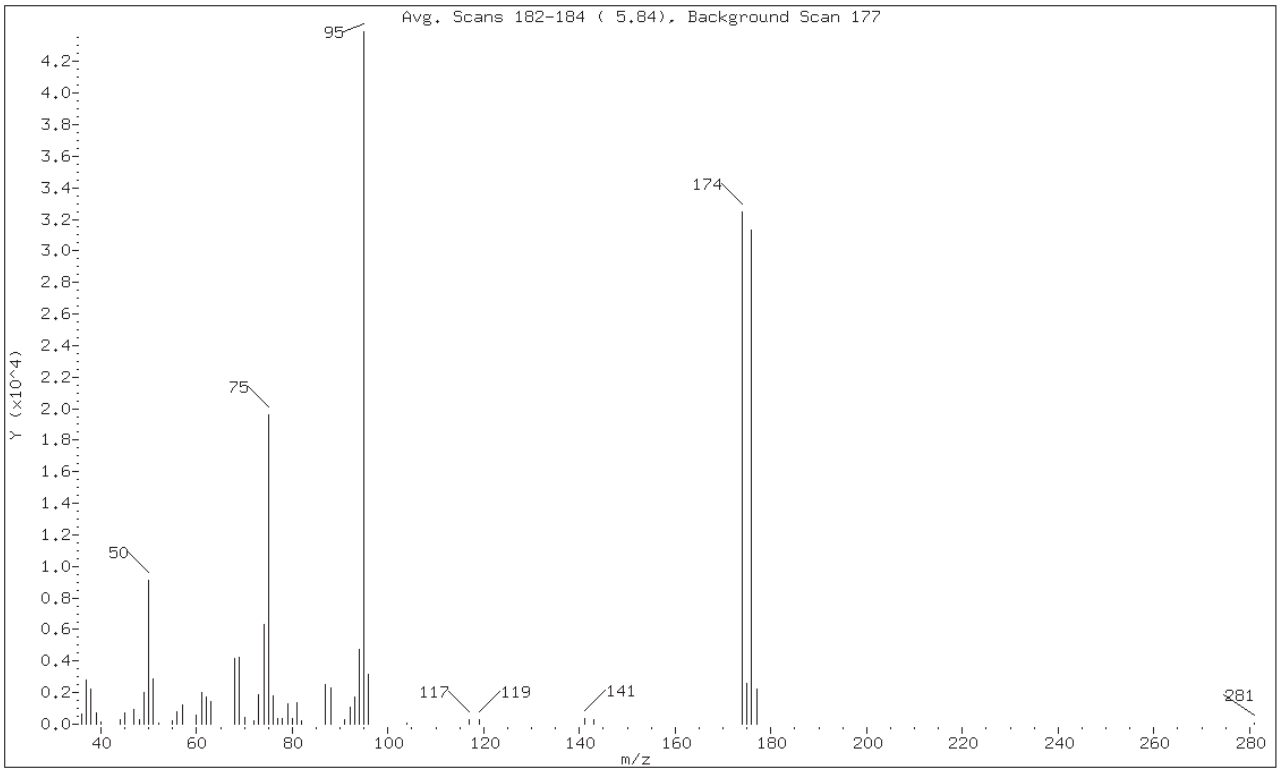
Data File: RR6649.D

Date: 27-JUN-2011 09:16

Client ID: BFB Instrument: R2.i

Sample Info: BFB,,1uL Operator: DOBRANSKYM

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.82
75	30.00 - 60.00% of mass 95	44.73
96	5.00 - 9.00% of mass 95	7.18
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	73.97
175	5.00 - 9.00% of mass 174	5.88 (7.94)
176	95.00 - 101.00% of mass 174	71.40 (96.53)
177	5.00 - 9.00% of mass 176	5.05 (7.07)

Data File: RR6649.D

Date: 27-JUN-2011 09:16

Client ID: BFB Instrument: R2.i

Sample Info: BFB,,1uL Operator: DOBRANSKYM

Data File: \\DenSvr03\Public\chem\MSV\R2.i\062711i.B\RR6649.D
Spectrum: Avg. Scans 182-184 (5.84), Background Scan 177
Location of Maximum: 95.00
Number of points: 52

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	680	56.00	775	77.00	376	104.00	96
37.00	2775	57.00	1241	78.00	377	117.00	285
38.00	2218	60.00	553	79.00	1278	119.00	310
39.00	690	61.00	2044	80.00	388	141.00	374
40.00	120	62.00	1742	81.00	1391	143.00	296
44.00	271	63.00	1469	82.00	209	174.00	32464
45.00	742	68.00	4185	87.00	2524	175.00	2579
47.00	939	69.00	4247	88.00	2317	176.00	31336
48.00	264	70.00	402	91.00	313	177.00	2215
49.00	2034	72.00	182	92.00	1101	281.00	107
50.00	9138	73.00	1859	93.00	1712		
51.00	2841	74.00	6296	94.00	4747		
52.00	102	75.00	19632	95.00	43888		
55.00	183	76.00	1770	96.00	3151		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\RR6735.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-JUN-2011 06:44
Operator : DOBRANSKYM Inst ID: R2.i
Smp Info : BFB,,1uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\bfb390.m
Meth Date : 20-Dec-2010 18:53 target Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC364

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.871	5.620	(0.000)	95	31184			0.00- 100.00	100.00
5.871	5.620	(0.000)	50	6292			15.00- 40.00	20.18
5.871	5.620	(0.000)	75	13954			30.00- 60.00	44.75
5.871	5.620	(0.000)	96	2345			5.00- 9.00	7.52
5.871	5.620	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
5.871	5.620	(0.000)	174	20960			50.00- 0.00	67.21
5.871	5.620	(0.000)	175	1753			5.00- 9.00	8.36
5.871	5.620	(0.000)	176	20776			95.00- 101.00	99.12
5.871	5.620	(0.000)	177	1391			5.00- 9.00	6.70

Data File: RR6735.D

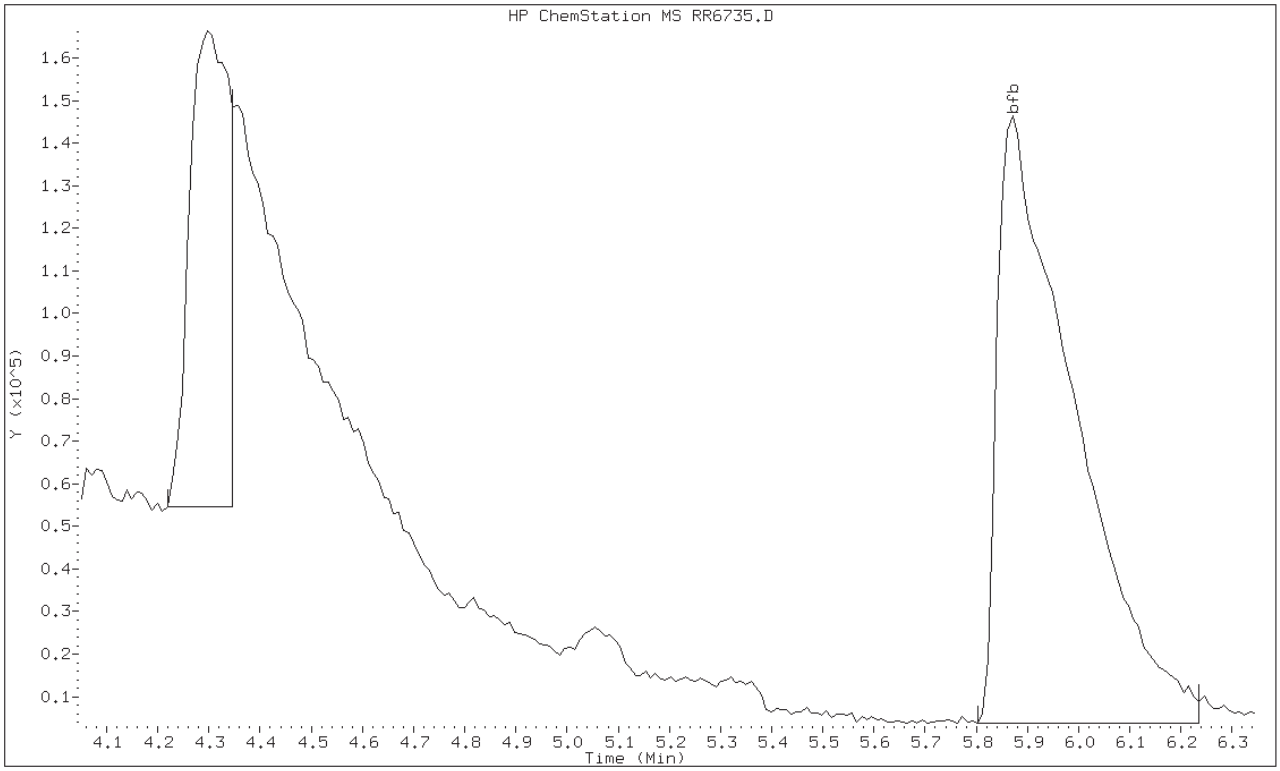
Date: 29-JUN-2011 06:44

Client ID: BFB

Instrument: R2.i

Sample Info: BFB,,1uL

Operator: DOBRANSKYM



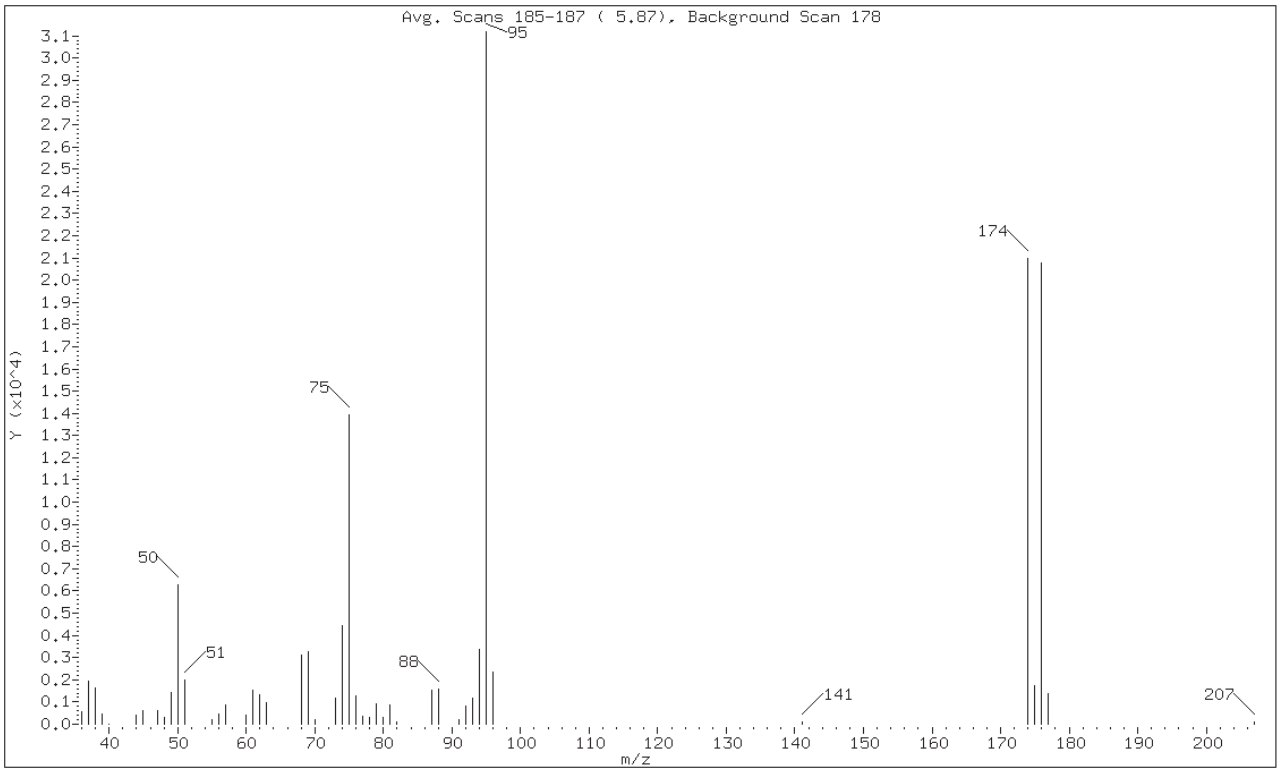
Data File: RR6735.D

Date: 29-JUN-2011 06:44

Client ID: BFB Instrument: R2.i

Sample Info: BFB,,1uL Operator: DOBRANSKYM

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.18
75	30.00 - 60.00% of mass 95	44.75
96	5.00 - 9.00% of mass 95	7.52
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	67.21
175	5.00 - 9.00% of mass 174	5.62 (8.36)
176	95.00 - 101.00% of mass 174	66.62 (99.12)
177	5.00 - 9.00% of mass 176	4.46 (6.70)

Data File: RR6735.D

Date: 29-JUN-2011 06:44

Client ID: BFB Instrument: R2.i

Sample Info: BFB,,1uL Operator: DOBRANSKYM

Data File: \\DenSvr03\Public\chem\MSV\R2.i\062911i.B\RR6735.D
Spectrum: Avg. Scans 185-187 (5.87), Background Scan 178
Location of Maximum: 95.00
Number of points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	558	55.00	212	75.00	13954	93.00	1176
37.00	1920	56.00	438	76.00	1256	94.00	3391
38.00	1641	57.00	869	77.00	372	95.00	31184
39.00	457	60.00	410	78.00	310	96.00	2345
40.00	23	61.00	1516	79.00	906	141.00	109
44.00	385	62.00	1308	80.00	309	174.00	20960
45.00	614	63.00	970	81.00	892	175.00	1753
47.00	620	68.00	3124	82.00	102	176.00	20776
48.00	301	69.00	3291	87.00	1542	177.00	1391
49.00	1415	70.00	182	88.00	1558	207.00	99
50.00	6292	73.00	1171	91.00	223		
51.00	2000	74.00	4419	92.00	795		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\RR6925.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 02-JUL-2011 07:41
Operator : MEIERG Inst ID: R2.i
Smp Info : BFB,,1uL
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\bfb390.m
Meth Date : 20-Dec-2010 18:53 target Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC186

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

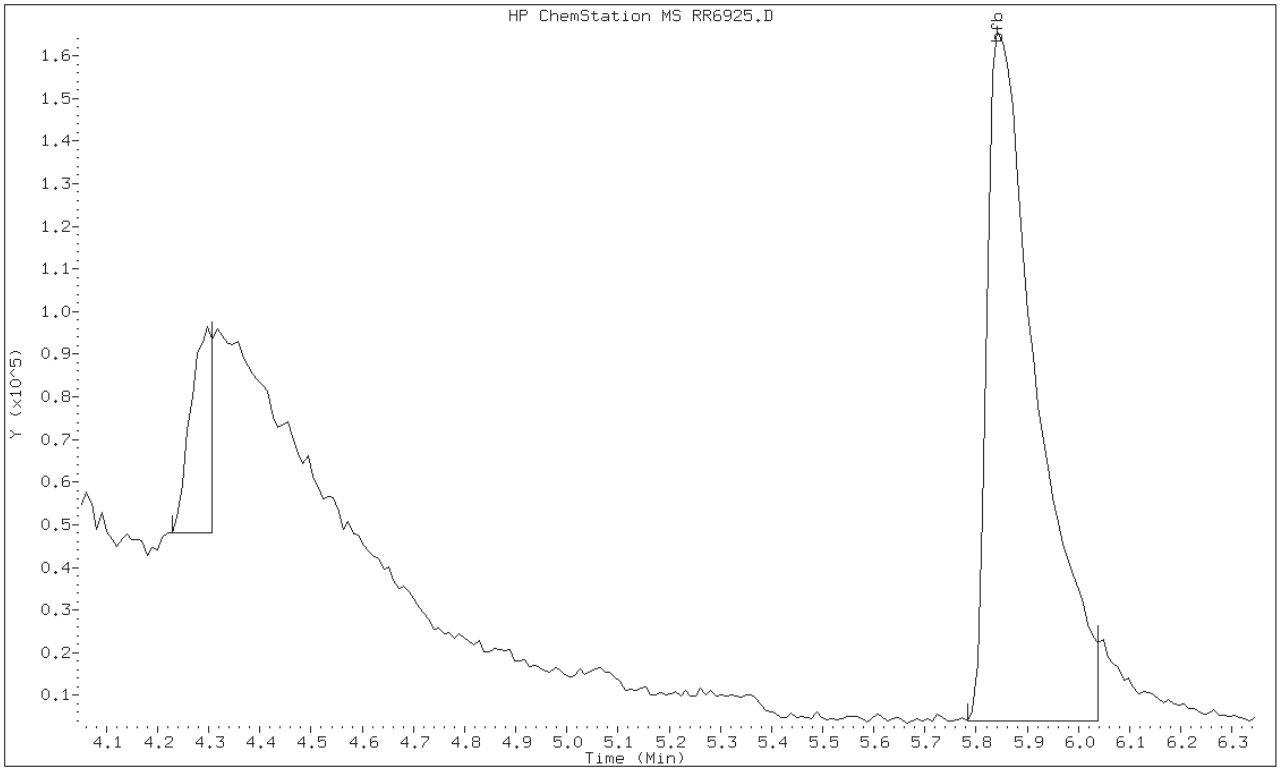
RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.842	5.620	(0.000)	95	35088			0.00- 100.00	100.00
5.842	5.620	(0.000)	50	7279			15.00- 40.00	20.74
5.842	5.620	(0.000)	75	15272			30.00- 60.00	43.52
5.842	5.620	(0.000)	96	2633			5.00- 9.00	7.50
5.842	5.620	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
5.842	5.620	(0.000)	174	24368			50.00- 0.00	69.45
5.842	5.620	(0.000)	175	1829			5.00- 9.00	7.51
5.842	5.620	(0.000)	176	23160			95.00- 101.00	95.04
5.842	5.620	(0.000)	177	1526			5.00- 9.00	6.59

Data File: RR6925.D

Date: 02-JUL-2011 07:41

Client ID: BFB Instrument: R2.i

Sample Info: BFB,,1uL Operator: MEIERG



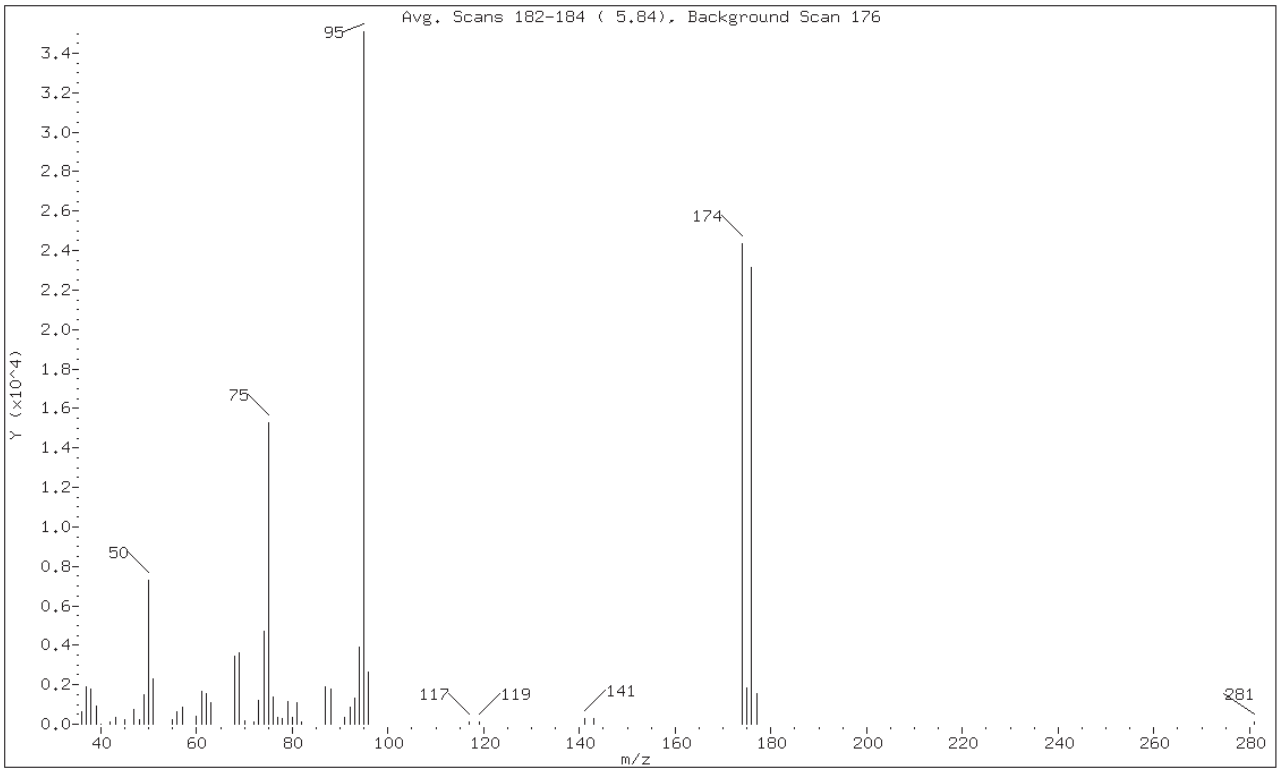
Data File: RR6925.D

Date: 02-JUL-2011 07:41

Client ID: BFB Instrument: R2.i

Sample Info: BFB,,1uL Operator: MEIERG

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.74
75	30.00 - 60.00% of mass 95	43.52
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	69.45
175	5.00 - 9.00% of mass 174	5.21 (7.51)
176	95.00 - 101.00% of mass 174	66.01 (95.04)
177	5.00 - 9.00% of mass 176	4.35 (6.59)

Data File: RR6925.D

Date: 02-JUL-2011 07:41

Client ID: BFB Instrument: R2.i

Sample Info: BFB,,1uL Operator: MEIERG

Data File: \\DenSvr03\Public\chem\MSV\R2.i\070211.B\RR6925.D
Spectrum: Avg. Scans 182-184 (5.84), Background Scan 176
Location of Maximum: 95.00
Number of points: 51

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	630	55.00	232	75.00	15272	94.00	3927
37.00	1889	56.00	618	76.00	1370	95.00	35088
38.00	1791	57.00	881	77.00	316	96.00	2633
39.00	900	60.00	380	78.00	311	117.00	95
40.00	12	61.00	1648	79.00	1147	119.00	96
42.00	93	62.00	1523	80.00	335	141.00	276
43.00	323	63.00	1089	81.00	1117	143.00	274
45.00	225	68.00	3418	82.00	97	174.00	24368
47.00	730	69.00	3605	87.00	1867	175.00	1829
48.00	238	70.00	193	88.00	1768	176.00	23160
49.00	1506	72.00	88	91.00	325	177.00	1526
50.00	7279	73.00	1218	92.00	865	281.00	88
51.00	2307	74.00	4718	93.00	1294		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-17248-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-75056/6

Matrix: Water | Lab File ID: RR6930.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 07/02/2011 09:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 75056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-triflu oroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
123-91-1	1,4-Dioxane	80	U	220	80	71
544-10-5	1-Chlorohexane	0.20	U	1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	3.2	U	6.0	3.2	1.8
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40	0.17
591-78-6	2-Hexanone	3.2	U	5.0	3.2	1.4
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	1.0
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.20	U	1.0	0.20	0.16
108-86-1	Bromobenzene	0.20	U	1.0	0.20	0.17
75-25-2	Bromoform	0.40	U	1.0	0.40	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.40	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-75056/6

Matrix: Water Lab File ID: RR6930.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 07/02/2011 09:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 75056 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.20	U	1.0	0.20	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.20	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.20	U	1.0	0.20	0.16
74-87-3	Chloromethane	1.6	U	2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	0.40	U	1.0	0.40	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.20	0.16
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.40	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	0.40	U	5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.80	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.40	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.20	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.40	0.19
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.40	0.17
100-42-5	Styrene	0.40	U	1.0	0.40	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.40	0.16
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.20	U	1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-75056/6

Matrix: Water Lab File ID: RR6930.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 07/02/2011 09:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 75056 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-120
460-00-4	4-Bromofluorobenzene (Surr)	95		75-120
1868-53-7	Dibromofluoromethane (Surr)	100		85-115
2037-26-5	Toluene-d8 (Surr)	97		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\RR6930.D
Lab Smp Id: MB Client Smp ID: MB
Inj Date : 02-JUL-2011 09:20
Operator : MEIERG Inst ID: R2.i
Smp Info : MB,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\8260B-H2O.m
Meth Date : 02-Jul-2011 09:02 meierg Quant Type: ISTD
Cal Date : 29-JUN-2011 09:32 Cal File: RR6743.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	59 Fluorobenzene	96	8.739	8.737	(1.000)	1113358	12.5000	
*	85 Chlorobenzene-d5	119	11.612	11.610	(1.000)	219551	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	14.179	14.187	(1.000)	230981	12.5000	
$	49 Dibromofluoromethane (Surr)	111	8.139	8.147	(0.931)	302377	10.4959	10.4959
$	55 1,2-Dichloroethane-d4	65	8.464	8.482	(0.968)	187243	9.84672	9.84672
$	73 Toluene-d8	98	10.116	10.134	(0.871)	1080064	10.2219	10.2219
$	96 4-Bromofluorobenzene (Surr)	95	12.881	12.889	(0.908)	308506	10.0242	10.0242
M	9 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	10 Xylene (total)	106	Compound Not Detected.					
	1 dichlorodifluoromethane	85	Compound Not Detected.					
	2 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	3 Chloromethane	50	Compound Not Detected.					
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Ethylene Oxide	43	Compound Not Detected.					
	6 Bromomethane	94	Compound Not Detected.					
	7 Chloroethane	64	Compound Not Detected.					
	8 Dichlorofluoromethane	67	Compound Not Detected.					
	11 Trichlorofluoromethane	101	Compound Not Detected.					
	12 Ethanol	45	Compound Not Detected.					
	13 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
	15 Ethyl Ether	59	Compound Not Detected.					
	16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
18	Acrolein	56	Compound Not Detected.					
19	Acetone	43	Compound Not Detected.					
20	Trichlorotrifluoroethane	151	Compound Not Detected.					
14	2-propanol	45	Compound Not Detected.					
21	1,1-Dichloroethene	96	Compound Not Detected.					
22	Iodomethane	142	Compound Not Detected.					
23	Acetonitrile	41	Compound Not Detected.					
24	Methyl Acetate	43	Compound Not Detected.					
28	Carbon Disulfide	76	Compound Not Detected.					
27	Allyl Chloride	41	Compound Not Detected.					
29	tert-Butyl alcohol	59	Compound Not Detected.					
30	Methylene Chloride	84	Compound Not Detected.					
31	Acrylonitrile	53	Compound Not Detected.					
32	Methyl t-butyl ether	73	Compound Not Detected.					
33	trans-1,2-Dichloroethene	96	Compound Not Detected.					
34	Hexane	57	Compound Not Detected.					
35	Vinyl acetate	43	Compound Not Detected.					
36	Isopropyl ether	87	Compound Not Detected.					
37	1,1-Dichloroethane	63	Compound Not Detected.					
38	Chloroprene	53	Compound Not Detected.					
39	ETBE	59	Compound Not Detected.					
41	2-Butanone	43	Compound Not Detected.					
134	2-Butanol	45	Compound Not Detected.					
40	Ethyl Acetate	43	Compound Not Detected.					
43	cis-1,2-Dichloroethene	96	Compound Not Detected.					
42	Propionitrile	54	Compound Not Detected.					
44	2,2-Dichloropropane	77	Compound Not Detected.					
45	Methacrylonitrile	41	Compound Not Detected.					
46	Bromochloromethane	128	Compound Not Detected.					
47	Chloroform	83	Compound Not Detected.					
48	Tetrahydrofuran	42	Compound Not Detected.					
51	1,1,1-Trichloroethane	97	Compound Not Detected.					
50	Isobutanol	41	Compound Not Detected.					
52	Cyclohexane	56	Compound Not Detected.					
53	1,1-Dichloropropene	75	Compound Not Detected.					
54	Carbon Tetrachloride	117	Compound Not Detected.					
56	1,2-Dichloroethane	62	Compound Not Detected.					
58	Benzene	78	Compound Not Detected.					
57	TAME	73	Compound Not Detected.					
60	n-Butanol	56	Compound Not Detected.					
61	Trichloroethene	95	Compound Not Detected.					
62	2-Pentanone	43	Compound Not Detected.					
63	Methyl Methacrylate	100	Compound Not Detected.					
65	1,2-Dichloropropane	63	Compound Not Detected.					
64	Methyl Cyclohexane	55	Compound Not Detected.					
66	1,4-Dioxane	88	Compound Not Detected.					
67	Dibromomethane	93	Compound Not Detected.					
68	Bromodichloromethane	83	Compound Not Detected.					
70	2-nitropropane	41	Compound Not Detected.					
69	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71	cis-1,3-Dichloropropene	75	Compound Not Detected.					
72	4-Methyl-2-pentanone	43	Compound Not Detected.					
74	Toluene	91	Compound Not Detected.					
76	trans-1,3-Dichloropropene	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
75	Ethyl methacrylate	69	Compound Not Detected.					
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
87	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
88	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
90	o-Xylene	106	Compound Not Detected.					
91	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
100	Bromobenzene	156	Compound Not Detected.					
101	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	Compound Not Detected.					
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
111	1,4-dichlorobenzene	146	Compound Not Detected.					
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
117	Hexachlorobutadiene	225	Compound Not Detected.					
119	Naphthalene	128	Compound Not Detected.					
120	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: RR6930.D

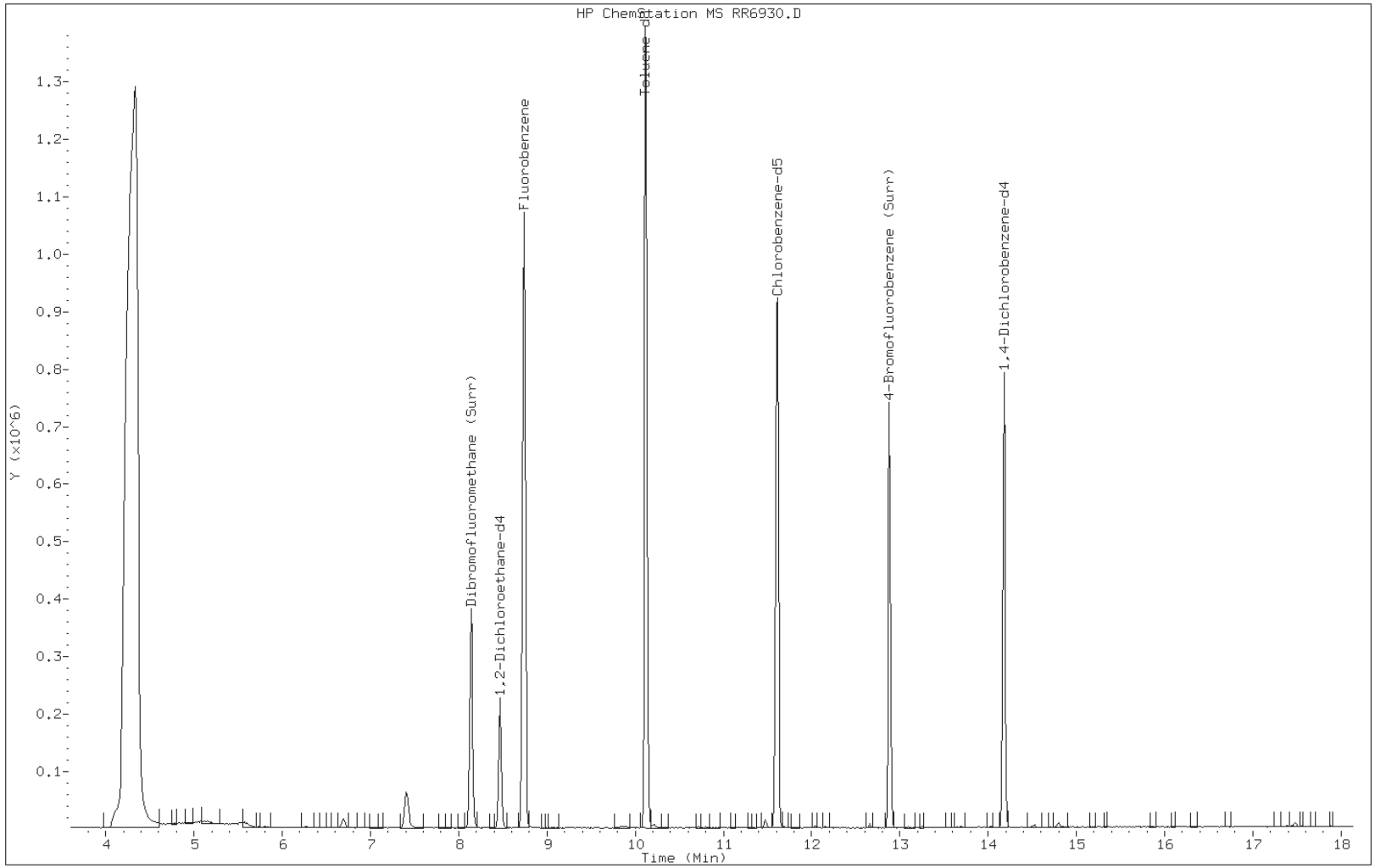
Date: 02-JUL-2011 09:20

Client ID: MB

Instrument: R2.i

Sample Info: MB,,

Operator: MEIERG



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-17248-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-75056/5

Matrix: Water | Lab File ID: RR6929.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 07/02/2011 08:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 75056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	4.18		1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	4.59		1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	4.27		1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-triflu oroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	4.63		1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	4.53		1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	5.37		1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	4.85		1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	3.96		1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	4.22		3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	3.94		1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	4.25		1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	4.00	J	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	4.20		1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	4.39		1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	4.45		1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	4.45		1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	4.10		1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	4.41		1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	4.29		1.0	0.40	0.16
123-91-1	1,4-Dioxane	80	U	220	80	71
544-10-5	1-Chlorohexane	4.72		1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	4.73		1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	23.8		6.0	3.2	1.8
95-49-8	2-Chlorotoluene	4.31		1.0	0.40	0.17
591-78-6	2-Hexanone	19.0		5.0	3.2	1.4
106-43-4	4-Chlorotoluene	4.28		1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	4.29		1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	20.0		5.0	3.2	1.0
67-64-1	Acetone	19.9		10	6.4	1.9
71-43-2	Benzene	4.46		1.0	0.20	0.16
108-86-1	Bromobenzene	4.17		1.0	0.20	0.17
75-25-2	Bromoform	4.32		1.0	0.40	0.19
74-83-9	Bromomethane	5.16		2.0	0.40	0.21
75-15-0	Carbon disulfide	3.62		2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-17248-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-75056/5

Matrix: Water | Lab File ID: RR6929.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 07/02/2011 08:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 75056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	4.84		2.0	0.40	0.19
108-90-7	Chlorobenzene	4.25		1.0	0.20	0.17
74-97-5	Chlorobromomethane	4.44		1.0	0.20	0.10
124-48-1	Chlorodibromomethane	4.36		1.0	0.40	0.17
75-00-3	Chloroethane	4.98		2.0	1.6	0.41
67-66-3	Chloroform	4.38		1.0	0.20	0.16
74-87-3	Chloromethane	4.85		2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	4.54		1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	4.36		1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	4.38		1.0	0.40	0.17
75-27-4	Dichlorobromomethane	4.35		1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	4.90		2.0	0.80	0.31
100-41-4	Ethylbenzene	4.48		1.0	0.20	0.16
106-93-4	Ethylene Dibromide	4.47		1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	4.20		1.0	0.40	0.12
98-82-8	Isopropylbenzene	4.90		1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	3.90	J	5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	4.66	J	5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	9.00		2.0	0.80	0.34
91-20-3	Naphthalene	3.84		1.0	0.80	0.22
104-51-8	n-Butylbenzene	4.63		1.0	0.40	0.14
103-65-1	N-Propylbenzene	4.43		1.0	0.20	0.16
95-47-6	o-Xylene	4.37		1.0	0.40	0.19
135-98-8	sec-Butylbenzene	4.48		1.0	0.40	0.17
100-42-5	Styrene	4.39		1.0	0.40	0.17
98-06-6	tert-Butylbenzene	4.47		1.0	0.40	0.16
127-18-4	Tetrachloroethene	4.58		1.0	0.40	0.20
108-88-3	Toluene	4.66		1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	4.80		1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	4.37		1.0	0.40	0.19
79-01-6	Trichloroethene	4.80		1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	4.74		2.0	0.80	0.29
75-01-4	Vinyl chloride	5.16		1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-75056/5

Matrix: Water Lab File ID: RR6929.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 07/02/2011 08:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 75056 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-120
460-00-4	4-Bromofluorobenzene (Surr)	96		75-120
1868-53-7	Dibromofluoromethane (Surr)	98		85-115
2037-26-5	Toluene-d8 (Surr)	101		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\RR6929.D
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 02-JUL-2011 08:58
Operator : MEIERG Inst ID: R2.i
Smp Info : LCS,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\R2.i\070211.B\8260B-H2O.m
Meth Date : 02-Jul-2011 09:02 meierg Quant Type: ISTD
Cal Date : 29-JUN-2011 09:32 Cal File: RR6743.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	8.736	8.737	(1.000)	1114922	12.5000	
* 85 Chlorobenzene-d5	119	11.609	11.610	(1.000)	216814	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	14.177	14.187	(1.000)	226721	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	8.136	8.147	(0.931)	296522	10.2782	10.2782
$ 55 1,2-Dichloroethane-d4	65	8.471	8.482	(0.970)	186079	9.77178	9.77178
$ 73 Toluene-d8	98	10.124	10.134	(0.872)	1101588	10.5572	10.5572
$ 96 4-Bromofluorobenzene (Surr)	95	12.878	12.889	(0.908)	306026	10.1304	10.1304
M 9 1,2-Dichloroethene (total)	96				272574	9.33864	9.33864
M 10 Xylene (total)	106				587426	13.3747	13.3747
1 dichlorodifluoromethane	85	4.605	4.606	(0.527)	109519	4.89513	4.89513
2 1,2-Dichlorotetrafluoroethane	85	4.605	4.793	(0.527)	109853	8.94918	8.94918
3 Chloromethane	50	4.851	4.861	(0.555)	176442	4.85152	4.85152
4 Vinyl Chloride	62	5.038	5.039	(0.577)	148244	5.15796	5.15796
5 Ethylene Oxide	43	Compound Not Detected.					
6 Bromomethane	94	5.441	5.442	(0.623)	108461	5.16138	5.16138
7 Chloroethane	64	5.520	5.521	(0.632)	84221	4.98083	4.98083
8 Dichlorofluoromethane	67	Compound Not Detected.					
11 Trichlorofluoromethane	101	5.765	5.776	(0.660)	172925	4.73877	4.73877
12 Ethanol	45	Compound Not Detected.					
13 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
15 Ethyl Ether	59	Compound Not Detected.					
16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
18 Acrolein	56	Compound Not Detected.					
19 Acetone	43	6.277	6.278	(0.719)	50591	19.8581	19.8581
20 Trichlorotrifluoroethane	151	Compound Not Detected.					
14 2-propanol	45	Compound Not Detected.					
21 1,1-Dichloroethene	96	6.287	6.288	(0.720)	144486	5.37444	5.37444
22 Iodomethane	142	6.493	6.494	(0.743)	198221	4.91944	4.91944
23 Acetonitrile	41	6.690	6.544	(0.766)	8850	10.4731	10.4730(a)
24 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	6.602	6.612	(0.756)	489336	3.62340	3.62340
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	6.690	6.691	(0.766)	116304	4.65873	4.65873
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	6.877	6.888	(0.787)	117810	3.90473	3.90473(a)
33 trans-1,2-Dichloroethene	96	6.926	6.927	(0.793)	143326	4.79964	4.79964
34 Hexane	57	7.094	7.104	(0.611)	244537	4.67342	4.67342
35 Vinyl acetate	43	7.212	7.222	(0.825)	109597	3.92946	3.92946
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	7.290	7.291	(0.834)	234609	4.52991	4.52991
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	7.713	7.714	(0.883)	81135	23.8273	23.8273
134 2-Butanol	45	7.762	7.763	(0.889)	75286	127.744	127.744(R)
40 Ethyl Acetate	43	7.713	7.695	(0.883)	81133	7.97186	7.97186(Q)
43 cis-1,2-Dichloroethene	96	7.772	7.773	(0.890)	129248	4.53900	4.53900
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	7.802	7.803	(0.893)	162242	4.72847	4.72847(a)
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	7.989	7.990	(0.914)	41542	4.43899	4.43899
47 Chloroform	83	7.999	8.000	(0.916)	192958	4.37742	4.37742
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	8.235	8.236	(0.943)	180077	4.59185	4.59184
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	8.343	8.344	(0.955)	193101	4.84811	4.84811
54 Carbon Tetrachloride	117	8.382	8.393	(0.959)	165554	4.84326	4.84326
56 1,2-Dichloroethane	62	8.530	8.541	(0.976)	87410	4.38922	4.38922
58 Benzene	78	8.549	8.550	(0.979)	466032	4.45950	4.45950
57 TAME	73	Compound Not Detected.					
60 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	95	9.051	9.062	(1.036)	138896	4.79762	4.79762
62 2-Pentanone	43	9.110	9.121	(1.043)	50727	7.77300	7.77300
63 Methyl Methacrylate	100	Compound Not Detected.					
65 1,2-Dichloropropane	63	9.277	9.278	(1.062)	106742	4.44562	4.44562
64 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	9.396	9.397	(1.075)	40250	4.37528	4.37528
68 Bromodichloromethane	83	9.474	9.475	(1.084)	111756	4.35079	4.35079
70 2-nitropropane	41	Compound Not Detected.					
69 2-Chloroethyl vinyl ether	63	9.632	9.642	(1.102)	8928	2.63376	2.63376
71 cis-1,3-Dichloropropene	75	9.848	9.849	(1.127)	132196	4.35823	4.35823
72 4-Methyl-2-pentanone	43	9.917	9.918	(1.135)	147650	20.0200	20.0200
74 Toluene	91	10.183	10.193	(1.166)	487020	4.66320	4.66320
76 trans-1,3-Dichloropropene	75	10.320	10.321	(1.181)	89938	4.37303	4.37303
75 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	10.527	10.538	(1.205)	48856	4.62963	4.62963
78	2-Hexanone	43	10.674	10.675	(0.919)	99658	19.0228	19.0228
79	1,3-Dichloropropane	76	10.714	10.725	(0.923)	82209	4.40674	4.40674
80	Tetrachloroethene	164	10.733	10.734	(0.925)	92235	4.58326	4.58326
81	Dibromochloromethane	129	10.979	10.990	(0.946)	63322	4.35968	4.35968
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	11.166	11.167	(0.962)	50604	4.47197	4.47196
84	1-Chlorohexane	91	11.461	11.462	(0.987)	197931	4.72035	4.72035
86	Chlorobenzene	112	11.638	11.649	(1.003)	278221	4.25237	4.25236
87	1,1,1,2-Tetrachloroethane	131	11.688	11.699	(1.007)	77949	4.17760	4.17760
88	Ethylbenzene	106	11.688	11.699	(1.007)	162883	4.47837	4.47837
89	m and p-Xylene	106	11.796	11.807	(1.016)	409576	9.00188	9.00188
90	o-Xylene	106	12.298	12.299	(1.059)	177850	4.37281	4.37281
91	Styrene	104	12.298	12.299	(1.059)	261239	4.39352	4.39352
92	Bromoform	173	12.593	12.604	(1.085)	25466	4.31707	4.31707
93	isopropyl benzene	105	12.662	12.672	(0.893)	537878	4.89719	4.89719
94	cis-1,4-dichloro-2-butene	53	12.662	12.722	(0.893)	6923	2.64967	2.64967
95	Cyclohexanone	55	12.868	12.869	(1.108)	25448	120.999	120.999
97	1,1,2,2-Tetrachloroethane	83	12.957	12.958	(0.914)	45541	4.27297	4.27297
98	t-1,4-Dichloro-2-butene	53	13.006	13.017	(0.917)	55721	25.4814	25.4814
99	1,2,3-Trichloropropane	110	13.055	13.066	(0.921)	10244	4.22183	4.22183(Q)
100	Bromobenzene	156	13.104	13.115	(0.924)	81190	4.17432	4.17432
101	n-Propylbenzene	120	13.094	13.105	(0.924)	137137	4.42889	4.42889
103	2-Chlorotoluene	126	13.262	13.273	(0.935)	108361	4.30957	4.30957
102	1,3,5-Trimethylbenzene	105	13.252	13.253	(0.935)	410245	4.44515	4.44515
104	4-Chlorotoluene	126	13.370	13.381	(0.943)	106665	4.27914	4.27914
105	tert-Butylbenzene	119	13.645	13.656	(0.963)	373539	4.47383	4.47383
106	1,2,4-Trimethylbenzene	105	13.695	13.705	(0.966)	382644	4.25323	4.25322(Q)
107	sec-Butylbenzene	134	13.891	13.902	(0.980)	97310	4.48369	4.48369
108	4-Isopropyltoluene	119	14.019	14.030	(0.989)	429108	4.29081	4.29080
109	1,3-Dichlorobenzene	146	14.118	14.128	(0.996)	160094	4.10295	4.10295
111	1,4-dichlorobenzene	146	14.206	14.217	(1.002)	154996	4.29200	4.29200
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	14.521	14.532	(1.024)	433291	4.63455	4.63455
114	1,2-Dichlorobenzene	146	14.698	14.699	(1.037)	122595	4.20266	4.20266
115	1,2-Dibromo-3-chloropropane	157	15.701	15.712	(1.108)	4485	3.99510	3.99510
116	1,2,4-Trichlorobenzene	180	16.921	16.932	(1.194)	66284	3.93967	3.93967
117	Hexachlorobutadiene	225	17.108	17.119	(1.207)	55427	4.20012	4.20012
119	Naphthalene	128	17.384	17.394	(1.226)	78245	3.83570	3.83570
120	1,2,3-Trichlorobenzene	180	17.787	17.798	(1.255)	46536	3.96071	3.96071

QC Flag Legend

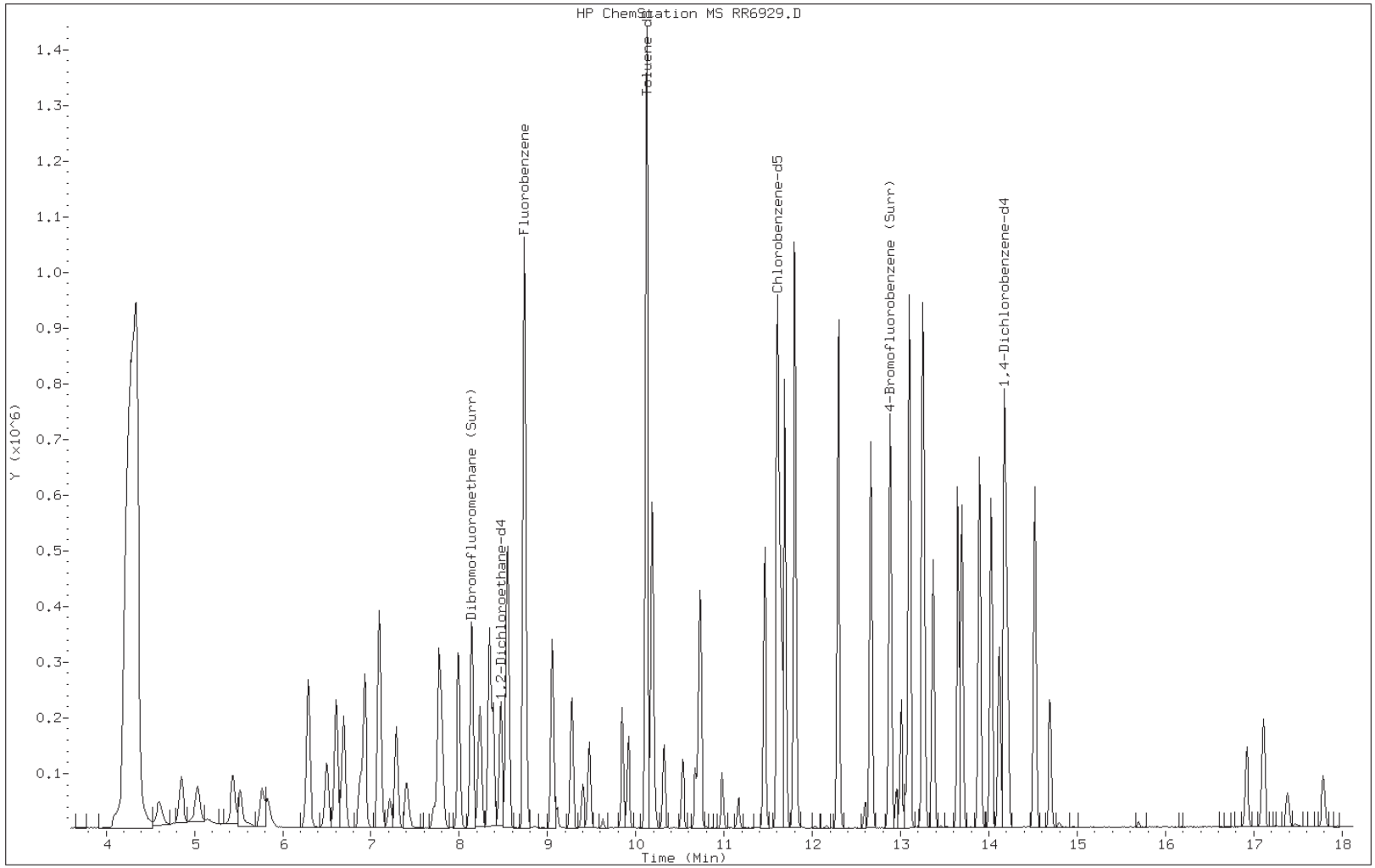
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: RR6929.D

Date: 02-JUL-2011 08:58

Client ID: LCS Instrument: R2.i

Sample Info: LCS,, Operator: MEIERG



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: MSV_R2 Start Date: 06/27/2011 09:16

Analysis Batch Number: 74138 End Date: 06/27/2011 20:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-74138/1		06/27/2011 09:16	1	RR6649.D	DB-624 (60.25) 0.25(mm)
IC 280-74138/2		06/27/2011 09:48	1	RR6651.D	DB-624 (60.25) 0.25(mm)
IC 280-74138/3		06/27/2011 10:10	1	RR6652.D	DB-624 (60.25) 0.25(mm)
IC 280-74138/4		06/27/2011 10:33	1	RR6653.D	DB-624 (60.25) 0.25(mm)
IC 280-74138/5		06/27/2011 10:55	1	RR6654.D	DB-624 (60.25) 0.25(mm)
IC 280-74138/6		06/27/2011 11:17	1	RR6655.D	DB-624 (60.25) 0.25(mm)
IC 280-74138/7		06/27/2011 11:39	1	RR6656.D	DB-624 (60.25) 0.25(mm)
IC 280-74138/8		06/27/2011 12:01	1	RR6657.D	DB-624 (60.25) 0.25(mm)
ICV 280-74138/9		06/27/2011 12:46	1	RR6659.D	DB-624 (60.25) 0.25(mm)
ICV 280-74138/10		06/27/2011 13:08	1	RR6660.D	DB-624 (60.25) 0.25(mm)
IC 280-74138/11		06/27/2011 13:30	1		DB-624 (60.25) 0.25(mm)
IC 280-74138/12		06/27/2011 13:52	1		DB-624 (60.25) 0.25(mm)
IC 280-74138/13		06/27/2011 14:15	1		DB-624 (60.25) 0.25(mm)
IC 280-74138/14		06/27/2011 14:37	1		DB-624 (60.25) 0.25(mm)
ICIS 280-74138/15		06/27/2011 15:00	1		DB-624 (60.25) 0.25(mm)
IC 280-74138/16		06/27/2011 15:22	1		DB-624 (60.25) 0.25(mm)
IC 280-74138/17		06/27/2011 15:44	1		DB-624 (60.25) 0.25(mm)
ICV 280-74138/18		06/27/2011 16:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/27/2011 16:29	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/27/2011 17:04	1		DB-624 (60.25) 0.25(mm)
ICV 280-74138/19		06/27/2011 17:48	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/27/2011 18:10	20		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/27/2011 18:33	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/27/2011 18:55	200		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/27/2011 19:17	500		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/27/2011 19:40	4		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/27/2011 20:02	20		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/27/2011 20:24	20		DB-624 (60.25) 0.25(mm)
ICV 280-74138/20		06/27/2011 20:47	1	RR6680.D	DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: MSV_R2 Start Date: 06/29/2011 06:44

Analysis Batch Number: 74454 End Date: 06/29/2011 18:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-74454/1		06/29/2011 06:44	1	RR6735.D	DB-624 (60.25) 0.25(mm)
CCV 280-74454/2		06/29/2011 06:55	1		DB-624 (60.25) 0.25(mm)
IC 280-74454/3		06/29/2011 07:18	1	RR6737.D	DB-624 (60.25) 0.25(mm)
IC 280-74454/4		06/29/2011 07:40	1	RR6738.D	DB-624 (60.25) 0.25(mm)
IC 280-74454/5		06/29/2011 08:02	1	RR6739.D	DB-624 (60.25) 0.25(mm)
IC 280-74454/6		06/29/2011 08:25	1	RR6740.D	DB-624 (60.25) 0.25(mm)
ICIS 280-74454/7		06/29/2011 08:47	1	RR6741.D	DB-624 (60.25) 0.25(mm)
IC 280-74454/8		06/29/2011 09:09	1	RR6742.D	DB-624 (60.25) 0.25(mm)
IC 280-74454/9		06/29/2011 09:32	1	RR6743.D	DB-624 (60.25) 0.25(mm)
ICV 280-74454/10		06/29/2011 09:54	1	RR6744.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 10:17	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 10:39	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 11:25	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 11:48	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 12:10	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 12:33	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 12:56	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 13:18	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 13:41	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 14:04	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 14:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 14:49	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 15:11	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 15:34	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 15:56	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 16:19	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 16:41	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 17:04	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 17:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 17:49	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 18:11	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/29/2011 18:34	1		DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: MSV_R2 Start Date: 07/02/2011 07:41

Analysis Batch Number: 75056 End Date: 07/02/2011 21:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-75056/1		07/02/2011 07:41	1	RR6925.D	DB-624 (60.25) 0.25(mm)
CCV 280-75056/2		07/02/2011 07:51	1	RR6926.D	DB-624 (60.25) 0.25(mm)
CCV 280-75056/3		07/02/2011 08:13	1	RR6927.D	DB-624 (60.25) 0.25(mm)
CCV 280-75056/4		07/02/2011 08:35	1	RR6928.D	DB-624 (60.25) 0.25(mm)
LCS 280-75056/5		07/02/2011 08:58	1	RR6929.D	DB-624 (60.25) 0.25(mm)
MB 280-75056/6		07/02/2011 09:20	1	RR6930.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 09:58	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 10:20	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 10:43	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 11:05	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 11:27	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 11:50	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 12:12	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 12:35	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 12:57	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 13:20	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 13:42	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 14:05	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 14:27	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 14:49	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 15:12	1		DB-624 (60.25) 0.25(mm)
280-17248-1	B035M0416JA	07/02/2011 15:34	1	RR6946.D	DB-624 (60.25) 0.25(mm)
280-17248-2	062111JE	07/02/2011 15:57	1	RR6947.D	DB-624 (60.25) 0.25(mm)
280-17248-3	062111JF	07/02/2011 16:19	1	RR6948.D	DB-624 (60.25) 0.25(mm)
280-17248-4	062111JR	07/02/2011 16:42	1	RR6949.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 17:04	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 17:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 18:34	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 18:56	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 19:19	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 19:41	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 20:04	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 20:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 20:48	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 21:11	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 21:33	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2011 21:55	1		DB-624 (60.25) 0.25(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG No.:

Project: Griffiss AFB B35 LTM

Client Sample ID	Lab Sample ID
B035M0416JA	280-17248-1
062111JE	280-17248-2

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: B035M0416JA
Lab Sample ID: 280-17248-1
Lab Name: TestAmerica Denver
Job No.: 280-17248-1
SDG ID.:
Matrix: Water
Date Sampled: 06/21/2011 13:20
Reporting Basis: WET
Date Received: 06/22/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Color	5.0	5.0	5.0	5.0	PCU	U		1	SM 2120B
Bromide	0.24	0.50	0.20	0.11	mg/L	J		1	9056A
Nitrate as N	0.10	0.50	0.10	0.042	mg/L	U		1	9056A
Chloride	230	15	2.5	1.3	mg/L			5	9056A
Nitrite as N	0.10	0.50	0.10	0.049	mg/L	U		1	9056A
Fluoride	0.10	1.0	0.10	0.060	mg/L	U		1	9056A
Nitrate Nitrite as N	0.10	0.50	0.10	0.042	mg/L	U		1	9056A
Orthophosphate as P	0.20	0.50	0.20	0.19	mg/L	U		1	9056A
Sulfate	14	5.0	0.50	0.23	mg/L			1	9056A
Total Organic Carbon - Quad	1.5	1.0	0.25	0.16	mg/L			1	9060A
Alkalinity	210	5.0	1.1	1.1	mg/L			1	SM 2320B
Total Dissolved Solids	750	10	4.7	4.7	mg/L			1	SM 2540C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 062111JE
Lab Sample ID: 280-17248-2
Lab Name: TestAmerica Denver
Job No.: 280-17248-1
SDG ID.:
Matrix: Water
Date Sampled: 06/21/2011 17:00
Reporting Basis: WET
Date Received: 06/22/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.10	0.10	0.050	0.022	mg/L			1	350.1
Nitrogen, Kjeldahl	0.33	1.0	0.20	0.077	mg/L	J		1	351.2
Chemical Oxygen Demand	10	20	10	4.1	mg/L	U		1	410.4
Color	25	5.0	5.0	5.0	PCU			1	SM 2120B
Hardness as calcium carbonate	1.6	5.0	1.5	1.3	mg/L	J		1	SM 2340C
Bromide	0.20	0.50	0.20	0.11	mg/L	U		1	9056A
Nitrate as N	0.10	0.50	0.10	0.042	mg/L	U		1	9056A
Chloride	0.50	3.0	0.50	0.25	mg/L	U		1	9056A
Nitrite as N	0.10	0.50	0.10	0.049	mg/L	U		1	9056A
Fluoride	0.10	1.0	0.10	0.060	mg/L	U		1	9056A
Nitrate Nitrite as N	0.10	0.50	0.10	0.042	mg/L	U		1	9056A
Orthophosphate as P	0.20	0.50	0.20	0.19	mg/L	U		1	9056A
Sulfate	0.50	5.0	0.50	0.23	mg/L	U		1	9056A
Total Organic Carbon - Quad	0.30	1.0	0.25	0.16	mg/L	J		1	9060A
Alkalinity	1.1	5.0	1.1	1.1	mg/L	U		1	SM 2320B
Total Dissolved Solids	8.0	10	4.7	4.7	mg/L	J		1	SM 2540C
Biochemical Oxygen Demand	0.60	2.0	0.60	0.24	mg/L	U		1	SM5210B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Analyst: SJS Batch Start Date: 07/13/2011

Reporting Units: mg/L Analytical Batch No.: 76458

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
15	ICVL	12:11	Ammonia	1.99	2.00	100	90-110		NXN ICV INT_00070
16	ICV	12:12	Ammonia	5.09	5.00	102	90-110		NXN ICV INT_00070
17	ICB	12:14	Ammonia	0.050				U	
64	CCV	13:24	Ammonia	5.03	5.00	101	90-110		NXN CAL INT_00071
65	CCVL	13:26	Ammonia	1.05	1.00	105	90-110		NXN CAL INT_00071
66	CCB	13:27	Ammonia	0.050				U	
80	CCV	13:48	Ammonia	5.01	5.00	100	90-110		NXN CAL INT_00071
81	CCVL	13:50	Ammonia	1.05	1.00	105	90-110		NXN CAL INT_00071
82	CCB	13:51	Ammonia	0.050				U	
94	CCV	14:09	Ammonia	5.06	5.00	101	90-110		NXN CAL INT_00071
95	CCVL	14:11	Ammonia	1.03	1.00	103	90-110		NXN CAL INT_00071
96	CCB	14:12	Ammonia	0.050				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Analyst: MW Batch Start Date: 07/16/2011

Reporting Units: mg/L Analytical Batch No.: 76964

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
13	ICV	19:15	Nitrogen, Kjeldahl	5.54	5.85	95	90-110		TKN ICV Stock_00006
14	ICB	19:16	Nitrogen, Kjeldahl	0.186				J	
21	CCV	19:25	Nitrogen, Kjeldahl	4.96	5.00	99	90-110		TKN 25 ppm_00147
22	CCB	19:26	Nitrogen, Kjeldahl	0.151				J	
35	CCV	19:43	Nitrogen, Kjeldahl	5.01	5.00	100	90-110		TKN 25 ppm_00147
36	CCB	19:44	Nitrogen, Kjeldahl	0.155				J	
47	CCV	19:58	Nitrogen, Kjeldahl	4.96	5.00	99	90-110		TKN 25 ppm_00147
48	CCB	19:59	Nitrogen, Kjeldahl	0.154				J	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Analyst: JMT Batch Start Date: 06/24/2011

Reporting Units: mg/L Analytical Batch No.: 73734

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	10:34	Chemical Oxygen Demand	105	100	105	90-110		COD icv std_00005
2	ICB	10:34	Chemical Oxygen Demand	10				U	
16	CCV	10:34	Chemical Oxygen Demand	95.8	100	96	90-110		COD cal std_00009
17	CCB	10:34	Chemical Oxygen Demand	10				U	
28	CCV	10:34	Chemical Oxygen Demand	95.8	100	96	90-110		COD cal std_00009
29	CCB	10:34	Chemical Oxygen Demand	10				U	
33	CCV	10:34	Chemical Oxygen Demand	95.8	100	96	90-110		COD cal std_00009
34	CCB	10:34	Chemical Oxygen Demand	10				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Analyst: EK Batch Start Date: 06/22/2011

Reporting Units: mg/L Analytical Batch No.: 73686

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	09:22	Nitrate as N	1.98	2.00	99	90-110		IC ICV daily_00510
			Nitrite as N	2.12	2.00	106	90-110		IC ICV daily_00510
			Orthophosphate as P	2.21	2.00	110	90-110		IC ICV daily_00510
2	ICB	09:59	Nitrate as N	0.10				U	
			Nitrite as N	0.10				U	
			Orthophosphate as P	0.20				U	
17	CCV	14:44	Nitrate as N	5.00	5.00	100	90-110		IC daily cal_00510
			Nitrite as N	5.13	5.00	103	90-110		IC daily cal_00510
			Orthophosphate as P	4.80	5.00	96	90-110		IC daily cal_00510
18	CCB	15:01	Nitrate as N	0.10				U	
			Nitrite as N	0.10				U	
			Orthophosphate as P	0.20				U	
29	CCV	18:45	Nitrate as N	5.01	5.00	100	90-110		IC daily cal_00510
			Nitrite as N	5.13	5.00	103	90-110		IC daily cal_00510
			Orthophosphate as P	5.11	5.00	102	90-110		IC daily cal_00510
30	CCB	19:02	Nitrate as N	0.10				U	
			Nitrite as N	0.10				U	
			Orthophosphate as P	0.20				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Analyst: EK Batch Start Date: 06/22/2011

Reporting Units: mg/L Analytical Batch No.: 73687

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	09:22	Bromide	2.00	2.00	100	90-110		IC ICV daily_00510
			Chloride	10.1	10.0	101	90-110		IC ICV daily_00510
			Fluoride	1.97	2.00	99	90-110		IC ICV daily_00510
			Sulfate	10.2	10.0	102	90-110		IC ICV daily_00510
2	ICB	09:59	Bromide	0.20				U	
			Chloride	0.50				U	
			Fluoride	0.10				U	
			Sulfate	0.50				U	
17	CCV	14:44	Bromide	5.07	5.00	101	90-110		IC daily cal_00510
			Chloride	24.3	25.0	97	90-110		IC daily cal_00510
			Fluoride	4.94	5.00	99	90-110		IC daily cal_00510
			Sulfate	25.2	25.0	101	90-110		IC daily cal_00510
18	CCB	15:01	Bromide	0.20				U	
			Chloride	0.50				U	
			Fluoride	0.10				U	
			Sulfate	0.50				U	
29	CCV	18:45	Bromide	5.07	5.00	101	90-110		IC daily cal_00510
			Chloride	24.3	25.0	97	90-110		IC daily cal_00510
			Fluoride	5.00	5.00	100	90-110		IC daily cal_00510
			Sulfate	25.4	25.0	101	90-110		IC daily cal_00510
30	CCB	19:02	Bromide	0.20				U	
			Chloride	0.50				U	
			Fluoride	0.10				U	
			Sulfate	0.50				U	
41	CCV	22:07	Bromide	5.06	5.00	101	90-110		IC daily cal_00510
			Chloride	24.3	25.0	97	90-110		IC daily cal_00510
			Fluoride	4.99	5.00	100	90-110		IC daily cal_00510
			Sulfate	25.2	25.0	101	90-110		IC daily cal_00510
42	CCB	22:24	Bromide	0.20				U	
			Chloride	0.50				U	
			Fluoride	0.10				U	
			Sulfate	0.50				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Analyst: GEY Batch Start Date: 07/07/2011

Reporting Units: mg/L Analytical Batch No.: 75698

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	15:36	Total Organic Carbon - Quad	19.7	20.0	99	90-110		TOC ICV Daily_00326
2	ICB	15:54	Total Organic Carbon - Quad	0.25				U	
16	CCV	20:31	Total Organic Carbon - Quad	24.8	25.0	99	90-110		TOC LCS Daily_00325
17	CCB	20:49	Total Organic Carbon - Quad	0.237				J	
28	CCV	00:10	Total Organic Carbon - Quad	25.1	25.0	100	90-110		TOC LCS Daily_00325
29	CCB	00:28	Total Organic Carbon - Quad	0.25				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Analyst: AJA Batch Start Date: 06/28/2011

Reporting Units: mg/L Analytical Batch No.: 74376

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
29	CCV	14:54	Alkalinity	205	200	102	90-110		Alk daily lcs_00152
30	CCB	15:01	Alkalinity	1.1				U	
41	CCV	16:35	Alkalinity	206	200	103	90-110		Alk daily lcs_00152
42	CCB	16:42	Alkalinity	1.1				U	
53	CCV	18:16	Alkalinity	208	200	104	90-110		Alk daily lcs_00152
54	CCB	18:23	Alkalinity	1.1				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 76458	Date: 07/13/2011 13:30						
350.1	MB 280-76458/68	Ammonia	0.050	U	mg/L	0.10	1
Batch ID: 76964	Date: 07/16/2011 19:20	Prep Batch: 76660	Date: 07/14/2011 16:45				
351.2	MB 280-76660/3-A	Nitrogen, Kjeldahl	0.176	J	mg/L	1.0	1
Batch ID: 73734	Date: 06/24/2011 10:34						
410.4	MB 280-73734/5	Chemical Oxygen Demand	10	U	mg/L	20	1
Batch ID: 73686	Date: 06/22/2011 11:07						
9056A	MB 280-73686/6	Nitrate as N	0.10	U	mg/L	0.50	1
9056A	MB 280-73686/6	Nitrite as N	0.10	U	mg/L	0.50	1
9056A	MB 280-73686/6	Nitrate Nitrite as N	0.10	U	mg/L	0.50	1
9056A	MB 280-73686/6	Orthophosphate as P	0.20	U	mg/L	0.50	1
Batch ID: 73687	Date: 06/22/2011 11:07						
9056A	MB 280-73687/6	Bromide	0.20	U	mg/L	0.50	1
9056A	MB 280-73687/6	Chloride	0.50	U	mg/L	3.0	1
9056A	MB 280-73687/6	Fluoride	0.10	U	mg/L	1.0	1
9056A	MB 280-73687/6	Sulfate	0.50	U	mg/L	5.0	1
Batch ID: 75698	Date: 07/07/2011 16:52						
9060A	MB 280-75698/5	Total Organic Carbon - Quad	0.25	U	mg/L	1.0	1
Batch ID: 73424	Date: 06/22/2011 16:34						
SM 2120B	MB 280-73424/1	Color	5.0	U	PCU	5.0	1
Batch ID: 74376	Date: 06/28/2011 15:30						
SM 2320B	MB 280-74376/33	Alkalinity	1.1	U	mg/L	5.0	1
Batch ID: 76596	Date: 07/14/2011 11:37						
SM 2340C	MB 280-76596/3	Hardness as calcium carbonate	1.5	U	mg/L	5.0	1
Batch ID: 73950	Date: 06/27/2011 08:16						
SM 2540C	MB 280-73950/1	Total Dissolved Solids	6.00	J	mg/L	10	1
Batch ID: 73955	Date: 06/27/2011 08:29						
SM 2540C	MB 280-73955/1	Total Dissolved Solids	8.00	J	mg/L	10	1
Batch ID: 73229	Date: 06/22/2011 05:22						
SM5210B	MB 280-73229/36	Biochemical Oxygen Demand	0.60	U	mg/L	2.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 73686		Date: 06/22/2011 15:52									
9056A	280-17248-2	Nitrate as N	0.10	U	mg/L						
9056A	280-17248-2 MS	Nitrate as N	4.96		mg/L	5.00	99	87-110			
9056A	280-17248-2	Nitrite as N	0.10	U	mg/L						
9056A	280-17248-2 MS	Nitrite as N	5.17		mg/L	5.00	103	87-112			
9056A	280-17248-2	Orthophosphate as P	0.20	U	mg/L						
9056A	280-17248-2 MS	Orthophosphate as P	5.17		mg/L	5.00	103	80-120			
Batch ID: 73687		Date: 06/22/2011 15:52									
9056A	280-17248-2	Bromide	0.20	U	mg/L						
9056A	280-17248-2 MS	Bromide	5.16		mg/L	5.00	103	86-110			
9056A	280-17248-2	Chloride	0.50	U	mg/L						
9056A	280-17248-2 MS	Chloride	25.4		mg/L	25.0	102	89-110			
9056A	280-17248-2	Fluoride	0.10	U	mg/L						
9056A	280-17248-2 MS	Fluoride	4.87		mg/L	5.00	97	88-111			
9056A	280-17248-2	Sulfate	0.50	U	mg/L						
9056A	280-17248-2 MS	Sulfate	25.3		mg/L	25.0	101	86-110			
Batch ID: 75698		Date: 07/07/2011 22:03									
9060A	280-17248-1	Total Organic Carbon - Quad	1.5		mg/L						
9060A	280-17248-1 MS	Total Organic Carbon - Quad	26.5		mg/L	25.0	100	86-114			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 73686	Date: 06/22/2011 16:08										
9056A	280-17248-2 MSD	Nitrate as N	5.03		mg/L	5.00	101	87-110	1	10	
9056A	280-17248-2 MSD	Nitrite as N	5.22		mg/L	5.00	104	87-112	1	10	
9056A	280-17248-2 MSD	Orthophosphate as P	5.23		mg/L	5.00	105	80-120	1	20	
Batch ID: 73687	Date: 06/22/2011 16:08										
9056A	280-17248-2 MSD	Bromide	5.20		mg/L	5.00	104	86-110	1	10	
9056A	280-17248-2 MSD	Chloride	25.7		mg/L	25.0	103	89-110	1	10	
9056A	280-17248-2 MSD	Fluoride	4.92		mg/L	5.00	98	88-111	1	10	
9056A	280-17248-2 MSD	Sulfate	25.5		mg/L	25.0	102	86-110	1	10	
Batch ID: 75698	Date: 07/07/2011 22:22										
9060A	280-17248-1 MSD	Total Organic Carbon - Quad	26.6		mg/L	25.0	100	86-114	0	12	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 73686	Date: 06/22/2011 15:35							
9056A	062111JE	280-17248-2	Nitrate as N	0.10	mg/L			U
9056A	062111JE	280-17248-2 DU	Nitrate as N	0.10	mg/L	NC	15	U
9056A	062111JE	280-17248-2	Nitrite as N	0.10	mg/L			U
9056A	062111JE	280-17248-2 DU	Nitrite as N	0.10	mg/L	NC	15	U
9056A	062111JE	280-17248-2	Orthophosphate as P	0.20	mg/L			U
9056A	062111JE	280-17248-2 DU	Orthophosphate as P	0.20	mg/L	NC	15	U
Batch ID: 73687	Date: 06/22/2011 15:35							
9056A	062111JE	280-17248-2	Bromide	0.20	mg/L			U
9056A	062111JE	280-17248-2 DU	Bromide	0.20	mg/L	NC	15	U
9056A	062111JE	280-17248-2	Chloride	0.50	mg/L			U
9056A	062111JE	280-17248-2 DU	Chloride	0.50	mg/L	NC	15	U
9056A	062111JE	280-17248-2	Fluoride	0.10	mg/L			U
9056A	062111JE	280-17248-2 DU	Fluoride	0.10	mg/L	NC	15	U
9056A	062111JE	280-17248-2	Sulfate	0.50	mg/L			U
9056A	062111JE	280-17248-2 DU	Sulfate	0.50	mg/L	NC	15	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 76458	Date: 07/13/2011 13:32										
						LCS Source: NXN CAL INT_00071					
350.1	LCS 280-76458/69	Ammonia	5.05		mg/L	5.00	101	90-110	1	10	
Batch ID: 76964	Date: 07/16/2011 19:18	Prep Batch: 76660	Date: 07/14/2011 16:45								
						LCS Source: TKN 25 ppm_00147					
351.2	LCS 280-76660/1-A	Nitrogen, Kjeldahl	5.65		mg/L	6.00	94	90-110	1	25	
Batch ID: 73734	Date: 06/24/2011 10:34										
						LCS Source: COD cal std_00009					
410.4	LCS 280-73734/3	Chemical Oxygen Demand	95.8		mg/L	100	96	90-110	3	11	
Batch ID: 73686	Date: 06/22/2011 10:33										
						LCS Source: IC daily cal_00510					
9056A	LCS 280-73686/4	Nitrate as N	5.01		mg/L	5.00	100	87-110	0	10	
9056A	LCS 280-73686/4	Nitrite as N	5.12		mg/L	5.00	102	87-112	0	10	
9056A	LCS 280-73686/4	Orthophosphate as P	4.89		mg/L	5.00	98	90-110	1	10	
Batch ID: 73687	Date: 06/22/2011 10:33										
						LCS Source: IC daily cal_00510					
9056A	LCS 280-73687/4	Bromide	5.06		mg/L	5.00	101	86-110	0	10	
9056A	LCS 280-73687/4	Chloride	24.3		mg/L	25.0	97	89-110	0	10	
9056A	LCS 280-73687/4	Fluoride	4.95		mg/L	5.00	99	88-111	0	10	
9056A	LCS 280-73687/4	Sulfate	24.9		mg/L	25.0	100	86-110	0	10	
Batch ID: 75698	Date: 07/07/2011 16:14										
						LCS Source: TOC LCS Daily_00325					
9060A	LCS 280-75698/3	Total Organic Carbon - Quad	24.9		mg/L	25.0	100	86-114	0	12	
Batch ID: 74376	Date: 06/28/2011 15:13										
						LCS Source: Alk daily lcs_00152					
SM 2320B	LCS 280-74376/31	Alkalinity	205		mg/L	200	103	90-110	0	10	
Batch ID: 76596	Date: 07/14/2011 11:37										
						LCS Source: Hard lcs std_00017					
SM 2340C	LCS 280-76596/1	Hardness as calcium carbonate	396		mg/L	403	98	90-110	1	10	
Batch ID: 73950	Date: 06/27/2011 08:16										
						LCS Source: TDS LCS_00166					
SM 2540C	LCS 280-73950/2	Total Dissolved Solids	498		mg/L	500	100	86-110	1	20	
Batch ID: 73955	Date: 06/27/2011 08:29										
						LCS Source: TDS LCS_00167					
SM 2540C	LCS 280-73955/2	Total Dissolved Solids	501		mg/L	500	100	86-110	0	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 73229		Date: 06/22/2011 05:22									
						LCS Source: BOD Daily LCS_00330					
SM5210B	LCS 280-73229/34	Biochemical Oxygen Demand	201		mg/L	198	101	85-115	3	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 76458	Date: 07/13/2011 13:33										
						LCSD Source: NXN CAL INT_00071					
350.1	LCSD 280-76458/70	Ammonia	5.08		mg/L	5.00	102	90-110	1	10	
Batch ID: 76964	Date: 07/16/2011 19:19	Prep Batch: 76660	Date: 07/14/2011 16:45								
						LCSD Source: TKN 25 ppm_00147					
351.2	LCSD 280-76660/2-A	Nitrogen, Kjeldahl	5.60		mg/L	6.00	93	90-110	1	25	
Batch ID: 73734	Date: 06/24/2011 10:34										
						LCSD Source: COD cal std_00009					
410.4	LCSD 280-73734/4	Chemical Oxygen Demand	93.1		mg/L	100	93	90-110	3	11	
Batch ID: 73686	Date: 06/22/2011 10:50										
						LCSD Source: IC daily cal_00510					
9056A	LCSD 280-73686/5	Nitrate as N	4.99		mg/L	5.00	100	87-110	0	10	
9056A	LCSD 280-73686/5	Nitrite as N	5.11		mg/L	5.00	102	87-112	0	10	
9056A	LCSD 280-73686/5	Orthophosphate as P	4.91		mg/L	5.00	98	90-110	1	10	
Batch ID: 73687	Date: 06/22/2011 10:50										
						LCSD Source: IC daily cal_00510					
9056A	LCSD 280-73687/5	Bromide	5.06		mg/L	5.00	101	86-110	0	10	
9056A	LCSD 280-73687/5	Chloride	24.2		mg/L	25.0	97	89-110	0	10	
9056A	LCSD 280-73687/5	Fluoride	4.94		mg/L	5.00	99	88-111	0	10	
9056A	LCSD 280-73687/5	Sulfate	24.8		mg/L	25.0	99	86-110	0	10	
Batch ID: 75698	Date: 07/07/2011 16:34										
						LCSD Source: TOC LCS Daily_00325					
9060A	LCSD 280-75698/4	Total Organic Carbon - Quad	24.9		mg/L	25.0	100	86-114	0	12	
Batch ID: 74376	Date: 06/28/2011 15:22										
						LCSD Source: Alk daily lcs_00152					
SM 2320B	LCSD 280-74376/32	Alkalinity	206		mg/L	200	103	90-110	0	10	
Batch ID: 76596	Date: 07/14/2011 11:37										
						LCSD Source: Hard lcs std_00017					
SM 2340C	LCSD 280-76596/2	Hardness as calcium carbonate	399		mg/L	403	99	90-110	1	10	
Batch ID: 73950	Date: 06/27/2011 08:16										
						LCSD Source: TDS LCS_00166					
SM 2540C	LCSD 280-73950/3	Total Dissolved Solids	495		mg/L	500	99	86-110	1	20	
Batch ID: 73955	Date: 06/27/2011 08:29										
						LCSD Source: TDS LCS_00167					
SM 2540C	LCSD 280-73955/3	Total Dissolved Solids	502		mg/L	500	100	86-110	0	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 73229		Date: 06/22/2011 05:22									
						LCSD Source: BOD Daily LCS_00330					
SM5210B	LCSD 280-73229/35	Biochemical Oxygen Demand	195		mg/L	198	99	85-115	3	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 73686	Date: 06/22/2011 10:16										
						LCS Source: IC CAL INT1_00101					
9056A	MRL 280-73686/3	Nitrate as N	0.194	J	mg/L	0.200	97	50-150			
9056A	MRL 280-73686/3	Nitrite as N	0.192	J	mg/L	0.200	96	50-150			
9056A	MRL 280-73686/3	Orthophosphate as P	0.20	U	mg/L	0.200	57	50-150			
Batch ID: 73687	Date: 06/22/2011 10:16										
						LCS Source: IC CAL INT1_00101					
9056A	MRL 280-73687/3	Bromide	0.191	J	mg/L	0.200	96	50-150			
9056A	MRL 280-73687/3	Chloride	0.951	J	mg/L	1.00	95	50-150			
9056A	MRL 280-73687/3	Fluoride	0.184	J	mg/L	0.200	92	50-150			
9056A	MRL 280-73687/3	Sulfate	0.989	J	mg/L	1.00	99	50-150			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_Alp 2

Method: 350.1 DL Date: 03/28/2011 13:26

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Ammonia		0.1	0.022

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_Alp 2

Method: 350.1 XMDL Date: 03/28/2011 13:26

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ammonia		0.1	0.0225

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_Astoria

Method: 351.2 DL Date: 10/26/2010 10:52

Prep Method: 351.2

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Nitrogen, Kjeldahl		1	0.077

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_Astoria

Method: 351.2 XMDL Date: 10/26/2010 10:52

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrogen, Kjeldahl		1	0.077

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_HACH SPEC

Method: 410.4 DL Date: 04/01/2011 09:36

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Chemical Oxygen Demand		20	4.06

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_HACH SPEC

Method: 410.4 XMDL Date: 03/22/2010 16:03

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chemical Oxygen Demand		20	4.06

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2120B LOQ Date: 11/01/2009 00:00

Analyte	Wavelength/ Mass	LOQ (PCU)	
Color		5	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2120B XRL Date: 11/01/2009 00:00

Analyte	Wavelength/ Mass	XRL (PCU)	
Color		5	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2340C DL Date: 03/11/2010 17:08

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Hardness as calcium carbonate		5	1.3

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2340C XMDL Date: 11/01/2009 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Hardness as calcium carbonate		5	1.3

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_IC8

Method: 9056A DL Date: 11/30/2009 00:00

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Bromide		0.5	0.113
Chloride		3	0.254
Fluoride		1	0.06
Nitrate as N		0.5	0.042
Nitrate Nitrite as N		0.5	0.042
Nitrite as N		0.5	0.049
Orthophosphate as P		0.5	0.187
Sulfate		5	0.232

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_IC8

Method: 9056A XMDL Date: 11/01/2009 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Bromide		0.2	0.113
Chloride		3	0.254
Fluoride		0.5	0.0597
Sulfate		5	0.232

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_IC8

Method: 9056A XMDL Date: 03/28/2011 13:33

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.5	0.0425
Nitrate Nitrite as N		0.5	0.0425
Nitrite as N		0.5	0.0494
Orthophosphate as P		0.5	0.187

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI2

Method: 9060A DL Date: 11/30/2009 00:00

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Total Organic Carbon - Quad		1	0.155

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI2

Method: 9060A XMDL Date: 03/28/2011 11:39

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Organic Carbon - Quad		1	0.155

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_AT2

Method: SM 2320B DL Date: 03/28/2011 12:06

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Alkalinity		5	1.07

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: WC_AT2

Method: SM 2320B XMDL Date: 03/28/2011 12:06

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	1.07

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2540C DL Date: 10/11/2010 11:58

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Total Dissolved Solids		10	4.7

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2540C XMDL Date: 10/11/2010 11:58

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Dissolved Solids		10	4.7

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM5210B DL Date: 03/28/2011 12:09

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Biochemical Oxygen Demand		2	0.236

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-17248-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM5210B XMDL Date: 03/28/2011 12:09

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Biochemical Oxygen Demand		2	0.236

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Prep Method: 351.2

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LCS 280-76660/1-A	07/14/2011 16:45	76660		25	25
LCSD 280-76660/2-A	07/14/2011 16:45	76660		25	25
MB 280-76660/3-A	07/14/2011 16:45	76660		25	25
280-17248-2	07/14/2011 16:45	76660		25	25

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_Alp 2 Method: 350.1

Start Date: 07/13/2011 11:50 End Date: 07/13/2011 16:10

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
ZZZZZZ			11:50																				
ZZZZZZ			11:51																				
ZZZZZZ			11:53																				
ZZZZZZ			11:54																				
IC 280-76458/5			11:56	X																			
IC 280-76458/6			11:57	X																			
IC 280-76458/7			11:59	X																			
IC 280-76458/8			12:00	X																			
IC 280-76458/9			12:02	X																			
IC 280-76458/10			12:03	X																			
IC 280-76458/11			12:05	X																			
ZZZZZZ			12:06																				
ZZZZZZ			12:08																				
ZZZZZZ			12:09																				
ICVL 280-76458/15	1		12:11	X																			
ICV 280-76458/16	1		12:12	X																			
ICB 280-76458/17	1		12:14	X																			
ZZZZZZ			12:15																				
ZZZZZZ			12:17																				
ZZZZZZ			12:18																				
ZZZZZZ			12:20																				
ZZZZZZ			12:21																				
ZZZZZZ			12:23																				
ZZZZZZ			12:24																				
ZZZZZZ			12:26																				
ZZZZZZ			12:27																				
ZZZZZZ			12:29																				
ZZZZZZ			12:30																				
ZZZZZZ			12:32																				
ZZZZZZ			12:33																				
RINSE 280-76458/31			12:35																				
CCV 280-76458/32			12:36																				
CCVL 280-76458/33			12:38																				
CCB 280-76458/34			12:39																				
ZZZZZZ			12:41																				
ZZZZZZ			12:42																				
ZZZZZZ			12:44																				
ZZZZZZ			12:45																				
ZZZZZZ			12:47																				
ZZZZZZ			12:48																				
ZZZZZZ			12:50																				
ZZZZZZ			12:51																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_Alp 2 Method: 350.1

Start Date: 07/13/2011 11:50 End Date: 07/13/2011 16:10

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
ZZZZZZ			12:53																				
ZZZZZZ			12:54																				
ZZZZZZ			12:56																				
ZZZZZZ			12:57																				
RINSE 280-76458/47			12:59																				
CCV 280-76458/48			13:00																				
CCVL 280-76458/49			13:02																				
CCB 280-76458/50			13:03																				
ZZZZZZ			13:05																				
ZZZZZZ			13:06																				
ZZZZZZ			13:08																				
ZZZZZZ			13:09																				
ZZZZZZ			13:11																				
ZZZZZZ			13:12																				
ZZZZZZ			13:14																				
ZZZZZZ			13:15																				
ZZZZZZ			13:17																				
ZZZZZZ			13:18																				
ZZZZZZ			13:20																				
ZZZZZZ			13:21																				
RINSE 280-76458/63			13:23																				
CCV 280-76458/64	1		13:24	X																			
CCVL 280-76458/65	1		13:26	X																			
CCB 280-76458/66	1		13:27	X																			
ZZZZZZ			13:29																				
MB 280-76458/68	1	T	13:30	X																			
LCS 280-76458/69	1	T	13:32	X																			
LCSD 280-76458/70	1	T	13:33	X																			
ZZZZZZ			13:35																				
ZZZZZZ			13:36																				
ZZZZZZ			13:38																				
ZZZZZZ			13:39																				
ZZZZZZ			13:41																				
ZZZZZZ			13:42																				
ZZZZZZ			13:44																				
ZZZZZZ			13:45																				
RINSE 280-76458/79			13:47																				
CCV 280-76458/80	1		13:48	X																			
CCVL 280-76458/81	1		13:50	X																			
CCB 280-76458/82	1		13:51	X																			
ZZZZZZ			13:53																				
280-17248-2	1	T	13:54	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_Alp 2 Method: 350.1

Start Date: 07/13/2011 11:50 End Date: 07/13/2011 16:10

Lab Sample ID	D/F	Type	Time	Analytes																				
				NH3																				
ZZZZZZ			13:56																					
ZZZZZZ			13:57																					
ZZZZZZ			13:59																					
ZZZZZZ			14:00																					
ZZZZZZ			14:02																					
ZZZZZZ			14:03																					
ZZZZZZ			14:05																					
ZZZZZZ			14:06																					
RINSE 280-76458/93			14:08																					
CCV 280-76458/94	1		14:09	X																				
CCVL 280-76458/95	1		14:11	X																				
CCB 280-76458/96	1		14:12	X																				
ZZZZZZ			14:14																					
ZZZZZZ			14:15																					
ZZZZZZ			14:17																					
ZZZZZZ			14:18																					
ZZZZZZ			14:20																					
ZZZZZZ			14:21																					
ZZZZZZ			14:23																					
ZZZZZZ			14:24																					
ZZZZZZ			14:26																					
ZZZZZZ			14:27																					
RINSE 280-76458/107			14:29																					
CCV 280-76458/108			14:30																					
CCVL 280-76458/109			14:32																					
CCB 280-76458/110			14:33																					
ZZZZZZ			14:35																					
ZZZZZZ			14:36																					
ZZZZZZ			14:38																					
ZZZZZZ			14:39																					
ZZZZZZ			14:41																					
ZZZZZZ			14:42																					
ZZZZZZ			14:44																					
ZZZZZZ			14:45																					
ZZZZZZ			14:47																					
ZZZZZZ			14:48																					
ZZZZZZ			14:50																					
ZZZZZZ			14:51																					
RINSE 280-76458/123			14:53																					
CCV 280-76458/124			14:54																					
CCVL 280-76458/125			14:56																					
CCB 280-76458/126			14:57																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_Alp 2 Method: 350.1

Start Date: 07/13/2011 11:50 End Date: 07/13/2011 16:10

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
ZZZZZZ			14:59																				
ZZZZZZ			15:00																				
ZZZZZZ			15:10																				
ZZZZZZ			15:12																				
ZZZZZZ			15:13																				
ZZZZZZ			15:15																				
ZZZZZZ			15:16																				
ZZZZZZ			15:18																				
ZZZZZZ			15:19																				
ZZZZZZ			15:21																				
RINSE 280-76458/137			15:22																				
CCV 280-76458/138			15:24																				
CCVL 280-76458/139			15:25																				
CCB 280-76458/140			15:27																				
ZZZZZZ			15:28																				
ZZZZZZ			15:30																				
ZZZZZZ			15:31																				
ZZZZZZ			15:40																				
ZZZZZZ			15:42																				
ZZZZZZ			15:43																				
ZZZZZZ			15:45																				
RINSE 280-76458/148			15:46																				
CCV 280-76458/149			15:48																				
CCVL 280-76458/150			15:49																				
CCB 280-76458/151			15:51																				
ZZZZZZ			15:52																				
ZZZZZZ			15:54																				
ZZZZZZ			15:55																				
ZZZZZZ			15:57																				
ZZZZZZ			15:58																				
ZZZZZZ			16:00																				
ZZZZZZ			16:01																				
ZZZZZZ			16:03																				
ZZZZZZ			16:04																				
RINSE 280-76458/161			16:06																				
CCV 280-76458/162			16:07																				
CCVL 280-76458/163			16:09																				
CCB 280-76458/164			16:10																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_Astoria Method: 351.2

Start Date: 07/16/2011 19:01 End Date: 07/16/2011 20:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				TKN																			
ZZZZZZ			19:01																				
ZZZZZZ			19:01																				
ZZZZZZ			19:02																				
ZZZZZZ			19:04																				
IC 280-76964/5			19:05	X																			
IC 280-76964/6			19:06	X																			
IC 280-76964/7			19:07	X																			
IC 280-76964/8			19:09	X																			
IC 280-76964/9			19:10	X																			
IC 280-76964/10			19:11	X																			
ZZZZZZ			19:13																				
ZZZZZZ			19:14																				
ICV 280-76964/13	1		19:15	X																			
ICB 280-76964/14	1		19:16	X																			
LCS 280-76660/1-A	1	T	19:18	X																			
LCSD 280-76660/2-A	1	T	19:19	X																			
MB 280-76660/3-A	1	T	19:20	X																			
ZZZZZZ			19:21																				
ZZZZZZ			19:23																				
ZZZZZZ			19:24																				
CCV 280-76964/21	1		19:25	X																			
CCB 280-76964/22	1		19:26	X																			
ZZZZZZ			19:28																				
ZZZZZZ			19:29																				
ZZZZZZ			19:30																				
ZZZZZZ			19:31																				
ZZZZZZ			19:33																				
ZZZZZZ			19:34																				
ZZZZZZ			19:35																				
ZZZZZZ			19:36																				
ZZZZZZ			19:38																				
ZZZZZZ			19:39																				
ZZZZZZ			19:40																				
ZZZZZZ			19:41																				
CCV 280-76964/35	1		19:43	X																			
CCB 280-76964/36	1		19:44	X																			
ZZZZZZ			19:45																				
ZZZZZZ			19:46																				
280-17248-2	1	T	19:48	X																			
ZZZZZZ			19:49																				
ZZZZZZ			19:50																				
ZZZZZZ			19:51																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_Astoria Method: 351.2

Start Date: 07/16/2011 19:01 End Date: 07/16/2011 20:05

Lab Sample ID	D / F	Type	Time	Analytes																				
				TKN																				
ZZZZZZ			19:53																					
ZZZZZZ			19:54																					
ZZZZZZ			19:55																					
ZZZZZZ			19:56																					
CCV 280-76964/47	1		19:58	X																				
CCB 280-76964/48	1		19:59	X																				
ZZZZZZ			20:00																					
ZZZZZZ			20:01																					
ZZZZZZ			20:03																					
ZZZZZZ			20:04																					
ZZZZZZ			20:05																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_HACH SPEC Method: 410.4

Start Date: 06/24/2011 10:34 End Date: 06/24/2011 10:34

Lab Sample ID	D/F	Type	Time	Analytes																				
				COD																				
ICV 280-73734/1	1		10:34	X																				
ICB 280-73734/2	1		10:34	X																				
LCS 280-73734/3	1	T	10:34	X																				
LCSD 280-73734/4	1	T	10:34	X																				
MB 280-73734/5	1	T	10:34	X																				
ZZZZZZ			10:34																					
ZZZZZZ			10:34																					
ZZZZZZ			10:34																					
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ZZZZZZ			10:34																					
ZZZZZZ			10:34																					
CCV 280-73734/16	1		10:34	X																				
CCB 280-73734/17	1		10:34	X																				
ZZZZZZ			10:34																					
ZZZZZZ			10:34																					
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ZZZZZZ			10:34																					
ZZZZZZ			10:34																					
CCV 280-73734/28	1		10:34	X																				
CCB 280-73734/29	1		10:34	X																				
ZZZZZZ			10:34																					
ZZZZZZ			10:34																					
280-17248-2	1	T	10:34	X																				
CCV 280-73734/33	1		10:34	X																				
CCB 280-73734/34	1		10:34	X																				
ZZZZZZ			10:34																					
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ZZZZZZ			10:34																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_HACH SPEC Method: 410.4

Start Date: 06/24/2011 10:34 End Date: 06/24/2011 10:34

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2120B

Start Date: 06/22/2011 16:34 End Date: 06/22/2011 16:34

Lab Sample ID	D / F	Type	Time	Analytes																				
				Color																				
MB 280-73424/1	1	T	16:34	X																				
ZZZZZZ			16:34																					
ZZZZZZ			16:34																					
ZZZZZZ			16:34																					
ZZZZZZ			16:34																					
280-17248-1	1	T	16:34	X																				
280-17248-2	1	T	16:34	X																				
ZZZZZZ			16:34																					
ZZZZZZ			16:34																					
ZZZZZZ			16:34																					
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ZZZZZZ			16:34																					
ZZZZZZ			16:34																					

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2340C

Start Date: 07/14/2011 11:37 End Date: 07/14/2011 13:21

Lab Sample ID	D / F	Type	Time	Analytes																				
				HardCC																				
LCS 280-76596/1	1	T	11:37	X																				
LCSD 280-76596/2	1	T	11:37	X																				
MB 280-76596/3	1	T	11:37	X																				
ZZZZZZ			11:37																					
ZZZZZZ			11:37																					
ZZZZZZ			11:37																					
ZZZZZZ			11:37																					
ZZZZZZ			11:37																					
ZZZZZZ			11:37																					
ZZZZZZ			11:37																					
ZZZZZZ			11:37																					
280-17248-2	1	T	11:37	X																				
ZZZZZZ			11:37																					
ZZZZZZ			11:37																					
ZZZZZZ			11:37																					
ZZZZZZ			13:21																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_IC8 Method: 9056A

Start Date: 06/22/2011 09:22 End Date: 06/23/2011 07:49

Lab Sample ID	D/F	Type	Time	Analytes																				
				N-No2	NNO32	NO3	Orthop																	
ICV 280-73686/1	1		09:22	X		X	X																	
ICB 280-73686/2	1		09:59	X		X	X																	
MRL 280-73686/3	1	T	10:16	X		X	X																	
LCS 280-73686/4	1	T	10:33	X		X	X																	
LCSD 280-73686/5	1	T	10:50	X		X	X																	
MB 280-73686/6	1	T	11:07	X	X	X	X																	
ZZZZZZ			11:56																					
ZZZZZZ			12:13																					
ZZZZZZ			12:30																					
ZZZZZZ			12:47																					
ZZZZZZ			13:04																					
ZZZZZZ			13:20																					
ZZZZZZ			13:37																					
ZZZZZZ			13:54																					
ZZZZZZ			14:11																					
280-17248-1	1	T	14:28	X	X	X	X																	
CCV 280-73686/17	1		14:44	X		X	X																	
CCB 280-73686/18	1		15:01	X		X	X																	
280-17248-2	1	T	15:18	X	X	X	X																	
280-17248-2 DU	1	T	15:35	X		X	X																	
280-17248-2 MS	1	T	15:52	X		X	X																	
280-17248-2 MSD	1	T	16:08	X		X	X																	
ZZZZZZ			16:25																					
ZZZZZZ			16:42																					
ZZZZZZ			16:59																					
ZZZZZZ			17:16																					
ZZZZZZ			18:12																					
ZZZZZZ			18:29																					
CCV 280-73686/29	1		18:45	X		X	X																	
CCB 280-73686/30	1		19:02	X		X	X																	
ZZZZZZ			19:19																					
ZZZZZZ			19:36																					
ZZZZZZ			19:53																					
ZZZZZZ			20:09																					
ZZZZZZ			20:26																					
ZZZZZZ			20:43																					
ZZZZZZ			21:00																					
ZZZZZZ			21:17																					
ZZZZZZ			21:33																					
ZZZZZZ			21:50																					
CCV 280-73686/41			22:07																					
CCB 280-73686/42			22:24																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_IC8 Method: 9056A

Start Date: 06/22/2011 09:22 End Date: 06/23/2011 07:49

Lab Sample ID	D / F	Type	Time	Analytes																				
				N-No2	NNO32	NO3	Orthop																	
ZZZZZZ			22:41																					
ZZZZZZ			22:57																					
ZZZZZZ			23:14																					
ICV 280-73686/46			23:31																					
CCV 280-73686/47			23:48																					
CCB 280-73686/48			00:05																					
ZZZZZZ			07:15																					
CCV 280-73686/50			07:32																					
CCB 280-73686/51			07:49																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_IC8 Method: 9056A

Start Date: 06/22/2011 09:22 End Date: 06/23/2011 07:49

Lab Sample ID	D/F	Type	Time	Analytes																				
				Br	CL-	F	SO4																	
ICV 280-73687/1	1		09:22	X	X	X	X																	
ICB 280-73687/2	1		09:59	X	X	X	X																	
MRL 280-73687/3	1	T	10:16	X	X	X	X																	
LCS 280-73687/4	1	T	10:33	X	X	X	X																	
LCSD 280-73687/5	1	T	10:50	X	X	X	X																	
MB 280-73687/6	1	T	11:07	X	X	X	X																	
ZZZZZZ			11:56																					
ZZZZZZ			12:13																					
ZZZZZZ			12:30																					
ZZZZZZ			12:47																					
ZZZZZZ			13:04																					
ZZZZZZ			13:20																					
ZZZZZZ			13:37																					
ZZZZZZ			13:54																					
ZZZZZZ			14:11																					
280-17248-1	1	T	14:28	X		X	X																	
CCV 280-73687/17	1		14:44	X	X	X	X																	
CCB 280-73687/18	1		15:01	X	X	X	X																	
280-17248-2	1	T	15:18	X	X	X	X																	
280-17248-2 DU	1	T	15:35	X	X	X	X																	
280-17248-2 MS	1	T	15:52	X	X	X	X																	
280-17248-2 MSD	1	T	16:08	X	X	X	X																	
ZZZZZZ			16:25																					
ZZZZZZ			16:42																					
ZZZZZZ			16:59																					
ZZZZZZ			17:16																					
ZZZZZZ			18:12																					
ZZZZZZ			18:29																					
CCV 280-73687/29	1		18:45	X	X	X	X																	
CCB 280-73687/30	1		19:02	X	X	X	X																	
ZZZZZZ			19:19																					
ZZZZZZ			19:36																					
ZZZZZZ			19:53																					
ZZZZZZ			20:09																					
ZZZZZZ			20:26																					
ZZZZZZ			20:43																					
280-17248-1	5	T	21:00		X																			
ZZZZZZ			21:17																					
ZZZZZZ			21:33																					
ZZZZZZ			21:50																					
CCV 280-73687/41	1		22:07	X	X	X	X																	
CCB 280-73687/42	1		22:24	X	X	X	X																	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_IC8 Method: 9056A

Start Date: 06/22/2011 09:22 End Date: 06/23/2011 07:49

Lab Sample ID	D / F	Type	Time	Analytes																			
				Br	Cl-	F	SO4																
ZZZZZZ			22:41																				
ZZZZZZ			22:57																				
ZZZZZZ			23:14																				
ICV 280-73687/46			23:31																				
CCV 280-73687/47			23:48																				
CCB 280-73687/48			00:05																				
ZZZZZZ			07:15																				
CCV 280-73687/50			07:32																				
CCB 280-73687/51			07:49																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_SHI2 Method: 9060A

Start Date: 07/07/2011 15:36 End Date: 07/08/2011 02:55

Lab Sample ID	D / F	Type	Time	Analytes																				
				TOCQ																				
ICV 280-75698/1	1		15:36	X																				
ICB 280-75698/2	1		15:54	X																				
LCS 280-75698/3	1	T	16:14	X																				
LCSD 280-75698/4	1	T	16:34	X																				
MB 280-75698/5	1	T	16:52	X																				
ZZZZZZ			17:11																					
ZZZZZZ			17:30																					
ZZZZZZ			17:48																					
ZZZZZZ			18:09																					
ZZZZZZ			18:28																					
ZZZZZZ			18:50																					
ZZZZZZ			19:10																					
ZZZZZZ			19:29																					
ZZZZZZ			19:50																					
ZZZZZZ			20:08																					
CCV 280-75698/16	1		20:31	X																				
CCB 280-75698/17	1		20:49	X																				
ZZZZZZ			21:08																					
ZZZZZZ			21:25																					
280-17248-1	1	T	21:46	X																				
280-17248-1 MS	1	T	22:03	X																				
280-17248-1 MSD	1	T	22:22	X																				
280-17248-2	1	T	22:40	X																				
ZZZZZZ			22:58																					
ZZZZZZ			23:16																					
ZZZZZZ			23:34																					
ZZZZZZ			23:51																					
CCV 280-75698/28	1		00:10	X																				
CCB 280-75698/29	1		00:28	X																				
ZZZZZZ			00:43																					
ZZZZZZ			00:59																					
ZZZZZZ			01:18																					
ZZZZZZ			01:35																					
ZZZZZZ			01:53																					
ZZZZZZ			02:14																					
CCV 280-75698/36			02:33																					
CCB 280-75698/37			02:55																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_AT2 Method: SM 2320B

Start Date: 06/28/2011 09:36 End Date: 06/28/2011 18:23

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			09:36																				
ZZZZZZ			09:39																				
ZZZZZZ			09:48																				
ZZZZZZ			09:58																				
ZZZZZZ			10:09																				
ZZZZZZ			10:17																				
ZZZZZZ			10:26																				
ZZZZZZ			10:35																				
ZZZZZZ			10:45																				
ZZZZZZ			10:54																				
ZZZZZZ			11:15																				
ZZZZZZ			11:37																				
ZZZZZZ			11:59																				
ZZZZZZ			12:21																				
ZZZZZZ			12:44																				
ZZZZZZ			13:05																				
CCV 280-74376/17			13:16																				
CCB 280-74376/18			13:22																				
ZZZZZZ			13:30																				
ZZZZZZ			13:38																				
ZZZZZZ			13:46																				
ZZZZZZ			13:55																				
ZZZZZZ			14:03																				
ZZZZZZ			14:11																				
ZZZZZZ			14:19																				
ZZZZZZ			14:27																				
ZZZZZZ			14:36																				
ZZZZZZ			14:43																				
CCV2 280-74376/29	1		14:54	X																			
CCB2 280-74376/30	1		15:01	X																			
LCS 280-74376/31	1	T	15:13	X																			
LCSD 280-74376/32	1	T	15:22	X																			
MB 280-74376/33	1	T	15:30	X																			
ZZZZZZ			15:37																				
ZZZZZZ			15:45																				
ZZZZZZ			15:53																				
ZZZZZZ			15:59																				
ZZZZZZ			16:07																				
ZZZZZZ			16:14																				
ZZZZZZ			16:23																				
CCV3 280-74376/41	1		16:35	X																			
CCB3 280-74376/42	1		16:42	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: WC_AT2 Method: SM 2320B

Start Date: 06/28/2011 09:36 End Date: 06/28/2011 18:23

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			16:51																				
ZZZZZZ			16:59																				
ZZZZZZ			17:09																				
ZZZZZZ			17:18																				
ZZZZZZ			17:26																				
ZZZZZZ			17:35																				
ZZZZZZ			17:43																				
ZZZZZZ			17:52																				
280-17248-1	1	T	18:00	X																			
280-17248-2	1	T	18:06	X																			
CCV4 280-74376/53	1		18:16	X																			
CCB4 280-74376/54	1		18:23	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2540C

Start Date: 06/27/2011 08:16 End Date: 06/27/2011 08:16

Lab Sample ID	D / F	Type	Time	Analytes																				
				TDS																				
MB 280-73950/1	1	T	08:16	X																				
LCS 280-73950/2	1	T	08:16	X																				
LCSD 280-73950/3	1	T	08:16	X																				
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
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ZZZZZZ			08:16																					
280-17248-1	1	T	08:16	X																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2540C

Start Date: 06/27/2011 08:29 End Date: 06/27/2011 08:29

Lab Sample ID	D / F	Type	Time	Analytes																				
				TDS																				
MB 280-73955/1	1	T	08:29	X																				
LCS 280-73955/2	1	T	08:29	X																				
LCSD 280-73955/3	1	T	08:29	X																				
280-17248-2	1	T	08:29	X																				
ZZZZZZ			08:29																					
ZZZZZZ			08:29																					
ZZZZZZ			08:29																					
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ZZZZZZ			08:29																					

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: NOEQUIP Method: SM5210B

Start Date: 06/22/2011 05:22 End Date: 06/22/2011 14:42

Lab Sample ID	D / F	Type	Time	Analytes																				
				BOD																				
ZZZZZZ			05:22																					
ZZZZZZ			05:22																					
ZZZZZZ			05:22																					
ZZZZZZ			05:22																					
ZZZZZZ			05:22																					
ZZZZZZ			05:22																					
ZZZZZZ			05:22																					
ZZZZZZ			05:22																					
ZZZZZZ			05:22																					
ZZZZZZ			05:22																					
ZZZZZZ			05:22																					
ZZZZZZ			05:22																					
LCS 280-73229/34	1	T	05:22	X																				
LCSD 280-73229/35	1	T	05:22	X																				
MB 280-73229/36	1	T	05:22	X																				
ZZZZZZ			05:22																					
ZZZZZZ			05:22																					
280-17248-2	1	T	05:22	X																				
ZZZZZZ			05:22																					
ZZZZZZ			05:23																					
ZZZZZZ			05:25																					
ZZZZZZ			05:25																					
ZZZZZZ			05:30																					
ZZZZZZ			05:30																					
ZZZZZZ			05:32																					
ZZZZZZ			05:33																					
ZZZZZZ			05:34																					
ZZZZZZ			05:38																					
ZZZZZZ			05:41																					
ZZZZZZ			05:45																					
ZZZZZZ			05:46																					
ZZZZZZ			05:50																					
ZZZZZZ			05:51																					
ZZZZZZ			06:51																					
ZZZZZZ			06:55																					
ZZZZZZ			06:56																					
ZZZZZZ			06:59																					
ZZZZZZ			07:00																					
ZZZZZZ			07:36																					
ZZZZZZ			07:41																					
ZZZZZZ			07:43																					
ZZZZZZ			14:42																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Instrument ID: NOEQUIP Method: SM5210B

Start Date: 06/22/2011 05:22 End Date: 06/22/2011 14:42

Lab Sample ID	D / F	Type	Time	Analytes																			
				BOD																			
ZZZZZZ			14:42																				
ZZZZZZ			14:42																				
ZZZZZZ			14:42																				
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ZZZZZZ			14:42																				

Prep Types
T = Total/NA

TESTAMERICA Denver

Wet Chemistry Data Review Checklist
For Tests with Calibration Curves

Test Name/ Method #: NH_3 350.1 SOP # WC-0040

Instrument: AQ2 Analyst: SP Analysis Date: 7.13.11

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
16905	A2	T	76458	350.1	
7/14/11 17245					
35 ~~17248~~ 17248					
17350					
17483					
17484					
17532					

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Minimum of five standards in ICAL or as specified in method?	✓			✓
2. Correlation coefficient ≥ 0.995 ?	✓			✓
3. Second-source ICV analyzed, and recovery within acceptance limits?	✓			✓
4. ICB analyzed immediately after the ICV & results < the RL	✓			✓
5. CCV analyzed after every ten samples & recovery within acceptance limits?	✓			✓
6. CCB analyzed after every CCV & results < RL?	✓			✓
7. Absolute value of the intercept is < ± ½ the RL?	✓			✓
B. Sample Results				
1. All samples greater than highest calibration standard diluted and reanalyzed?	✓			✓
2. Do associated RLs/MDLs reflect dilutions or limited sample volume?	✓			✓
3. All reported results bracketed by in control CCV results?	✓			✓
4. Sample analyses done within holding time?	✓			✓
5. Initial pH check documented for all samples? (If Applicable)	✓		✓	✓
6. Preparation benchsheet completed and included in package?	✓		✓	✓
7. Client requirements reviewed and met?	✓			✓
8. Were data manually transcribed from instrument printouts into TALS verified 100% including significant figures and correct units? (If Applicable)	✓		✓	✓
9. Do the prep and analysis dates in TALS reflect the actual dates?	✓			✓
11. Raw data copies prepared, scanned, and uploaded?	✓		✓	✓
12. Manual integrations done properly and initialed and dated?	✓		✓	✓
13. STD/True Value information is updated and included?	✓			✓
C. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10x blank have NCM?	✓			✓
2. Method blank < ½ RL or NCM provided?	✓			✓
3. LCS/LCSD run for batch and within QC limits?	✓			✓
4. MS/MSD run at required frequency and within limits or NCM written?	✓		✓	✓
5. DUP run at required frequency and RPD within acceptance limits or NCM written?			✓	✓

Analyst: SS Date: 7.14.11

2nd Level Reviewer: [signature] Date: 7/14/11

Test Name/ Method #: NH_3 350.1 SOP # WC-0040

Instrument: ALP2 Analyst: SJP Analysis Date: 7/13/11

Lot / Sample Numbers	Matrix	Batch	Method	Special Inst
17630	AQ	76458	350.1	
17635				
17720				
17721				
17744				
17752				
17785				

7/14/11

2nd level: RStosak 7/14/11

Peak Table:Ammonia

File name: C:\FLOW_4\0713NXNB.RST
Date: 13-Jul-11
Operator: SS

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppb)	Flags
1	107	SYNC	1	SYNC	1	1	1802326	9881.381836	
2	0	Carryover	1	CO	1	1	2399	22.087904	
3	0	Carryover	2	CO	1	1	442	11.211134	
B	0	read baseline	1	RB	1	1	0	8.754736	BL
5	101	Cal 0.00 ppb	1	C	1	1	656	12.398154	
6	102	Cal 50.0 ppb	1	C	1	1	7604	51.015720	
7	103	Cal 100 ppb	1	C	1	1	17181	104.234024	
8	104	Cal 500 ppb	1	C	1	1	84807	479.806854	
9	105	Cal 1000 ppb	1	C	1	1	178583	999.925964	
10	106	Cal 5000 ppb	1	C	1	1	905196	5003.406738	
11	107	Cal 10000 ppb	1	C	1	1	1824158	9999.192383	
12	0	blk	1	BLNK	1	1	-29	8.593961	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
14	108	5000 ppb NO2	1	U	1	1	813	13.274517	
15	109	ICV 2000 PPB	1	CCV	1	1	357745	1991.445435	
16	110	ICV 5000 PPB	1	CCV	1	1	921445	5092.394043	
17	0	icb	1	U	1	1	415	11.058971	
18	111	MRL	1	U	1	1	19860	119.123344	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
20	113	MB	1	U	1	1	447	11.241275	
21	106	LCS	1	U	1	1	911789	5039.516602	
22	106	LCSD	1	U	1	1	911134	5035.926758	
23	114	280-17408-c-6	1	U	1	1	253055	1412.414185	
24	115	280-17408-c-6MS	1	U	1	1	494245	2744.943359	
25	116	280-17408-c-6MSD	1	U	1	1	475544	2641.809082	
26	117	280-16905-d-7	1	U	1	1	1111282	6130.318848	
27	118	280-16760-b-1	1	U	1	1	445948	2478.529053	
28	119	280-16760-b-7	1	U	1	1	343540	1912.936523	
29	120	280-16760-b-10	1	U	1	1	297216	1656.783936	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
31	0	RINSE	1	U	1	1	-54	8.454769	
32	106	5000 PPB CCV	1	CCV	1	1	906538	5010.755859	
33	105	CCV 1000 PPB	1	CCV	1	1	186847	1045.723267	
34	0	CCB	1	U	1	1	566	11.901202	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
36	121	280-16760-b-13	1	U	1	1	307353	1712.857300	
37	122	280-16760-b-14	1	U	1	1	297101	1656.151245	
38	123	280-16760-b-15	1	U	1	1	267333	1491.443237	
39	124	280-16760-b-16	1	U	1	1	256079	1429.154419	
40	125	280-17628-e-1	1	U	20	1	1089820	120262.726562	
41	126	280-17484-c-7	1	U	1	1	4691	34.824532	
42	127	280-17484-b-3	1	U	1	1	7441	50.109306	
43	128	280-17484-b-3MS	1	U	1	1	698934	3871.738037	
44	129	280-17484-b-3MSD	1	U	1	1	692857	3838.337646	
45	130	280-17630-b-1	1	U	1	1	-1234	1.895070	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
47	0	RINSE	1	U	1	1	-66	8.388703	
48	106	5000 PPB CCV	1	CCV	1	1	905723	5006.292969	
49	105	CCV 1000 PPB	1	CCV	1	1	186690	1044.850830	
50	0	CCB	1	U	1	1	572	11.936714	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
52	131	280-17152-b-1	1	U	1	1	235644	1316.020996	
53	132	280-17152-b-2	1	U	1	1	255267	1424.661743	
54	133	280-17039-b-14	1	U	1	1	135488	760.996277	
55	134	280-17635-e-1	1	U	1	1	220965	1234.733521	
56	135	280-17635-f-5	1	U	1	1	17272	104.739296	
57	136	280-17635-e-6	1	U	1	1	17345	105.144989	
58	137	280-17635-e-8	1	U	1	1	1944	19.561102	
59	138	D	1	U	1	1	528	11.689290	
60	139	D	1	U	1	1	850	13.479793	
61	140	D	1	U	1	1	921	13.871568	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
63	0	RINSE	1	U	1	1	-150	7.919945	
64	106	5000 PPB CCV	1	CCV	1	1	910918	5034.744629	
65	105	CCV 1000 PPB	1	CCV	1	1	187140	1047.346802	
66	0	CCB	1	U	1	1	673	12.494428	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
68	141	mb	1	U	1	1	928	13.912933	
69	106	lcs	1	U	1	1	913009	5046.197754	
70	106	lcsd	1	U	1	1	919032	5079.180664	

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppb)	Flags
71	142	280-17752-a-1	1	U	1	1	20006	119.935493	
72	143	280-17752-a-1MS	1	U	1	1	794950	4399.007812	
73	144	280-17752-a-1MSD	1	U	1	1	673812	3733.645508	
74	145	280-17752-a-2	1	U	1	1	1558	17.414032	
75	146	280-17635-e-9	1	U	1	1	624	12.221901	
76	147	280-17245-c-2	1	U	1	1	15203	93.245407	
77	148	280-17245-b-3	1	U	1	1	99729	562.619568	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
79	0	RINSE	1	U	1	1	-110	8.141289	
80	106	5000 PPB CCV	1	CCV	1	1	906703	5011.662109	
81	105	CCV 1000 PPB	1	CCV	1	1	187963	1051.907104	
82	0	CCB	1	U	1	1	567	11.906835	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
84	149	280-17248-c-2	1	U	1	1	16474	100.306465	
85	150	280-17483-b-1	1	U	1	1	8358	55.208191	
86	151	280-17483-b-1MS	1	U	1	1	691572	3831.272217	
87	152	280-17483-b-1MSD	1	U	1	1	683821	3788.667725	
88	153	280-17483-b-2	1	U	1	1	332965	1854.480835	
89	154	280-17483-b-3	1	U	1	1	3059	25.754238	
90	155	280-17483-b-4	1	U	1	1	339898	1892.807617	
91	156	280-17483-b-5	1	U	1	1	11886	74.811325	
B	0	READBASELINE	1	RB	1	1	0	8.754736	BL
93	0	RINSE	1	U	1	1	-165	7.836428	
94	106	5000 PPB CCV	1	CCV	1	1	916194	5063.637207	
95	105	CCV 1000 PPB	1	CCV	1	1	184020	1030.056396	
96	0	CCB	1	U	1	1	489	11.473343	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
98	157	280-17483-b-6	1	U	1	1	273682	1526.580322	
99	158	280-17720-f-1	1	U	1	1	8448	55.708851	
100	159	280-17721-d-1	1	U	1	1	2651397	14431.874023	HI
101	201	280-17350-d-1	1	U	1	1	30021	175.578568	FL
102	202	280-17350-c-2	1	U	1	1	1563	17.441511	
103	203	280-17152-B-1	1	U	5	1	1159	75.991669	
104	204	280-17152-B-2	1	U	5	1	771	65.195145	
105	205	280-17635-E-1	1	U	5	1	508	57.884594	
B	0	READBASELINE	1	RB	1	1	0	8.754736	BL
107	0	RINSE	1	U	1	1	-119	8.093961	
108	106	5000 PPB CCV	1	CCV	1	1	918468	5076.090820	
109	105	CCV 1000 PPB	1	CCV	1	1	187019	1046.674805	
110	0	CCB	1	U	1	1	728	12.802420	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
112	206	mb	1	U	1	1	1369	16.366095	
113	106	lcs	1	U	1	1	913585	5049.353516	
114	106	lcsd	1	U	1	1	920329	5086.282715	
115	207	280-17532-d-1	1	U	1	1	287265	1601.735718	
116	208	280-17744-f-2	1	U	1	1	3004	25.452045	
117	209	280-17744-f-2MS	1	U	1	1	680398	3769.851318	
118	210	280-17744-f-2MSD	1	U	1	1	683174	3785.109131	
119	211	280-17785-b-10	1	U	1	1	161602	905.796082	
120	212	280-17785-b-14	1	U	1	1	316403	1762.902832	
121	213	280-17721-D-1	1	U	5	1	955437	26392.402344	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
123	0	RINSE	1	U	1	1	-394	6.565230	
124	106	5000 PPB CCV	1	CCV	1	1	916186	5063.596680	
125	105	CCV 1000 PPB	1	CCV	1	1	187367	1048.601318	
126	0	CCB	1	U	1	1	472	11.377052	
B	0	READ BASELINE	1	RB	1	1	0	8.754736	BL
128	214	280-16760-B-1	1	U	2	1	2983	50.672844	
129	215	280-16760-B-7	1	U	2	1	1317	32.148373	
130	216	280-16760-B-10	1	U	2	1	-104	16.356203	
131	217	280-16760-B-13	1	U	2	1	-127	16.096380	
132	218	280-16760-B-14	1	U	2	1	-101	16.391554	
133	219	280-16760-B-15	1	U	2	1	2289	42.956131	
134	220	280-16760-B-16	1	U	2	1	52	18.086399	
135	221	280-17408-C-6	1	U	2	1	1286	31.806887	
B	0	READBASELINE	1	RB	1	1	0	8.754736	BL
137	0	RINSE	1	U	1	1	-128	8.044719	
138	106	5000 PPB CCV	1	CCV	1	1	921543	5092.930664	
139	105	CCV 1000 PPB	1	CCV	1	1	188640	1055.656738	
140	0	CCB	1	U	1	1	936	13.955601	
141	222	280-17635-E-1	1	U	1	1	238388	1331.215576	
142	223	280-17635-E-1	1	U	2	1	-1165	4.563924	
143	224	280-17152-B-1	1	U	1	1	260477	1453.498535	
144	225	280-17152-B-1	1	U	2	1	744	25.782495	
145	226	280-17152-B-2	1	U	1	1	270100	1506.754272	

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppb)	Flags
146	227	280-17152-B-2	1	U	2	1	-121	16.166286	
B	0	READBASELINE	1	RB	1	1	0	8.754736	BL
148	0	RINSE	1	U	1	1	-179	7.759928	
149	106	5000 PPB CCV	1	CCV	1	1	927352	5124.740723	
150	105	CCV 1000 PPB	1	CCV	1	1	185882	1040.373657	
151	0	CCB	1	U	1	1	1106	14.903359	
152	228	280-16760-B-1	1	U	1	1	442851	2461.436768	
153	229	280-16760-B-7	1	U	1	1	352256	1961.108276	
154	230	280-16760-B-10	1	U	1	1	287328	1602.085571	
155	231	280-16760-B-13	1	U	1	1	336293	1872.878174	
156	232	280-16760-B-14	1	U	1	1	307955	1716.182373	
157	233	280-16760-B-15	1	U	1	1	276737	1543.483521	
158	234	280-16760-B-16	1	U	1	1	262123	1462.607178	
159	235	280-17408-C-6	1	U	1	1	261298	1458.041504	
B	0	READBASELINE	1	RB	1	1	0	8.754736	BL
161	0	RINSE	1	U	1	1	-137	7.991835	
162	106	5000 PPB CCV	1	CCV	1	1	925756	5115.998535	
163	105	CCV 1000 PPB	1	CCV	1	1	187295	1048.204712	
164	0	CCB	1	U	1	1	591	12.037603	

Ammonia:Calibration 1: Peak 5-164

File name: C:\FLOW_4\0713NXNB.RST
Date: 13-Jul-11
Operator: SS

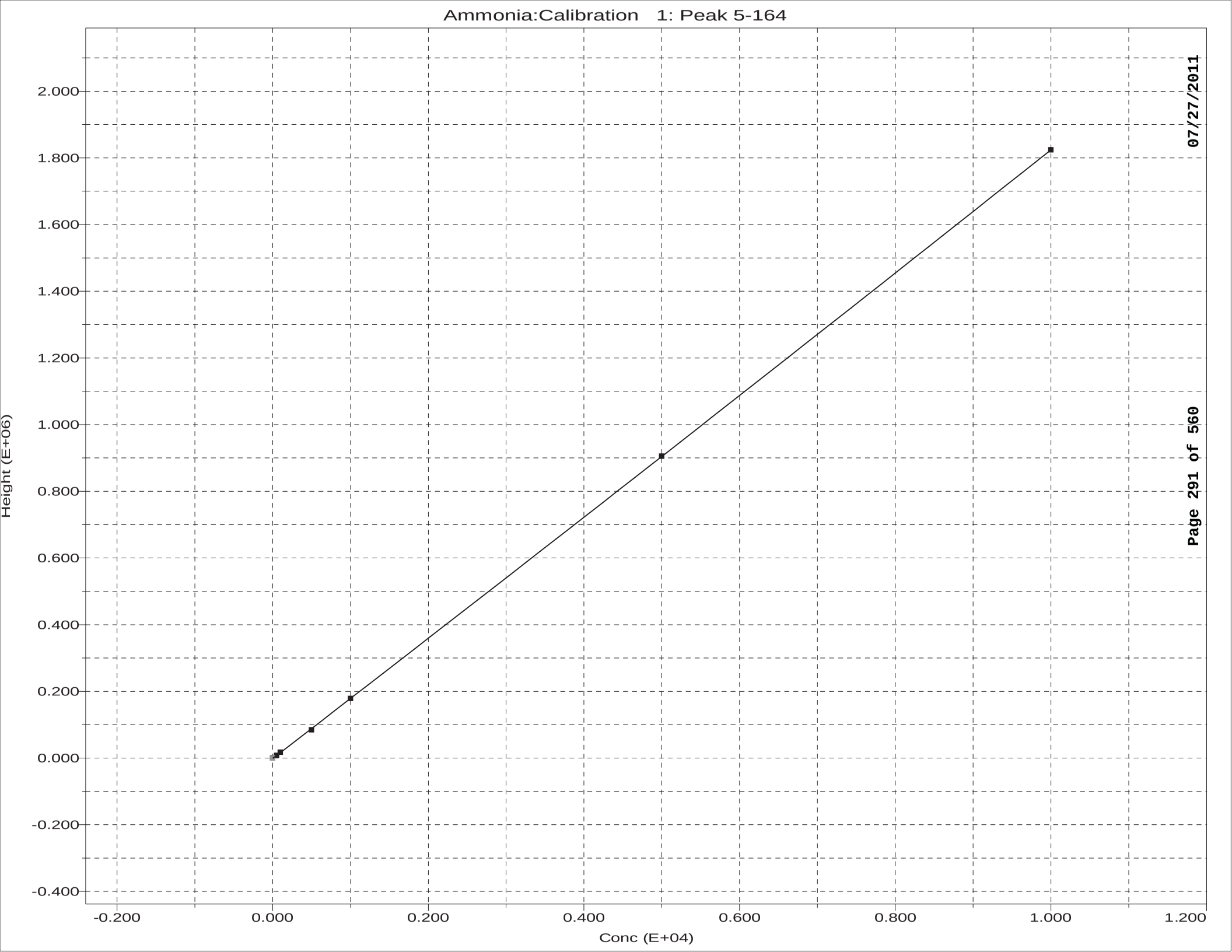
*	Name	Conc	Height
*	Cal 0.00 ppb	0.000000	655.511719
*	Cal 50.0 ppb	50.000000	7603.880859
*	Cal 100 ppb	100.000000	17180.597656
*	Cal 500 ppb	500.000000	84807.445312
*	Cal 1000 ppb	1000.000000	178583.406250
*	Cal 5000 ppb	5000.000000	905196.250000
*	Cal 10000 ppb	10000.000000	1824157.500000

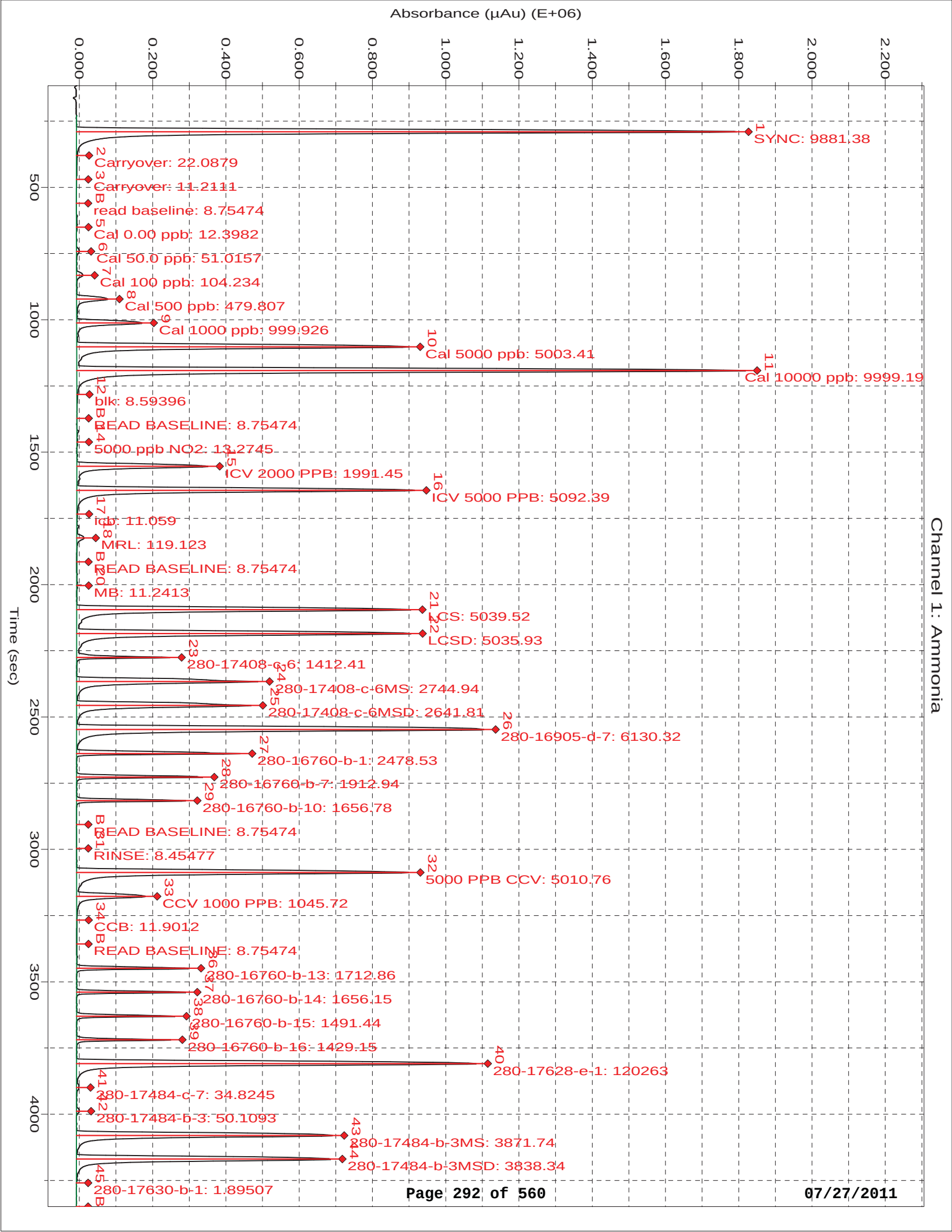
Calib Coef:
x=cyy+by+a
a: (intercept) 8.7547e+00
b: 5.5582e-03
c: -4.4632e-11

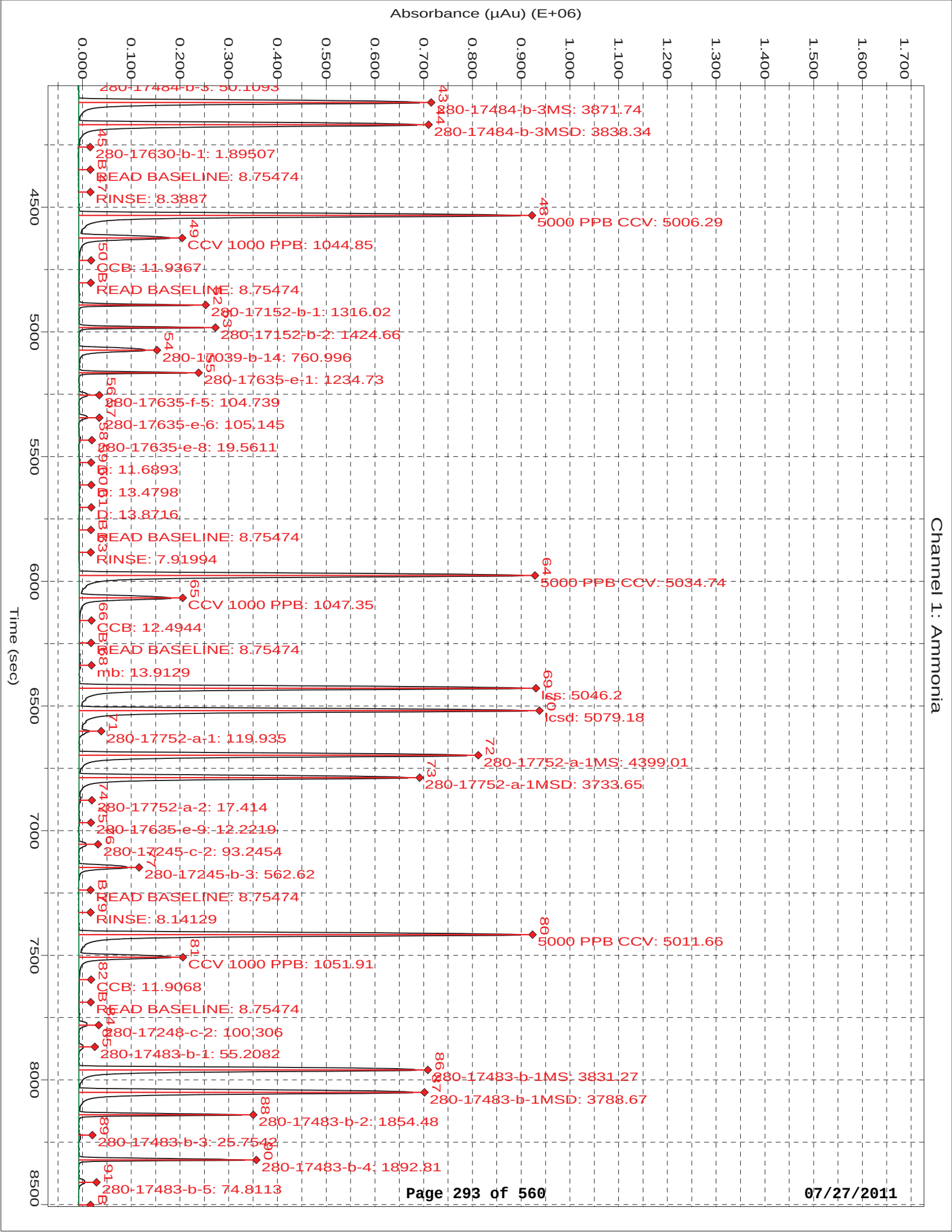
Corr Coef: 0.999997

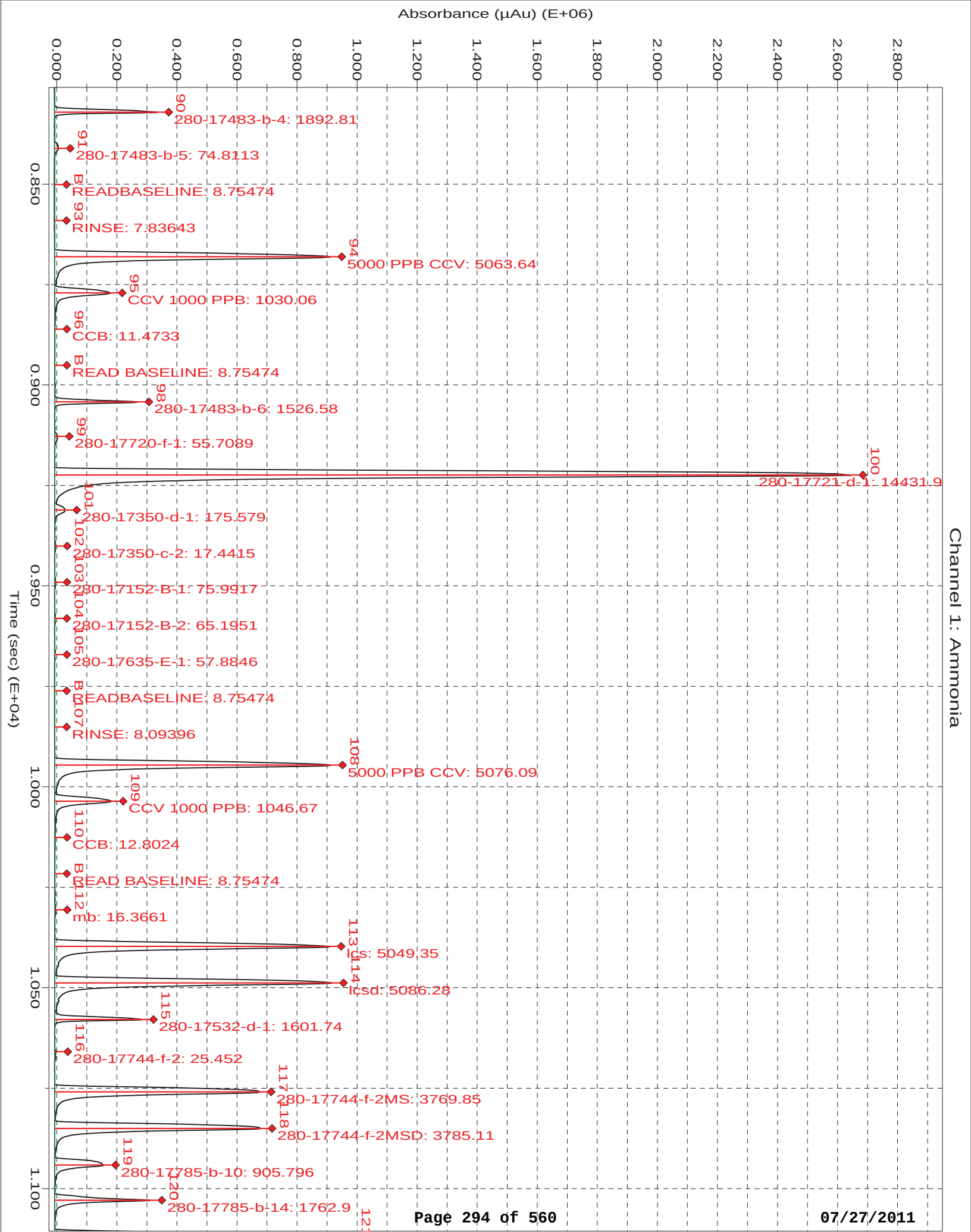
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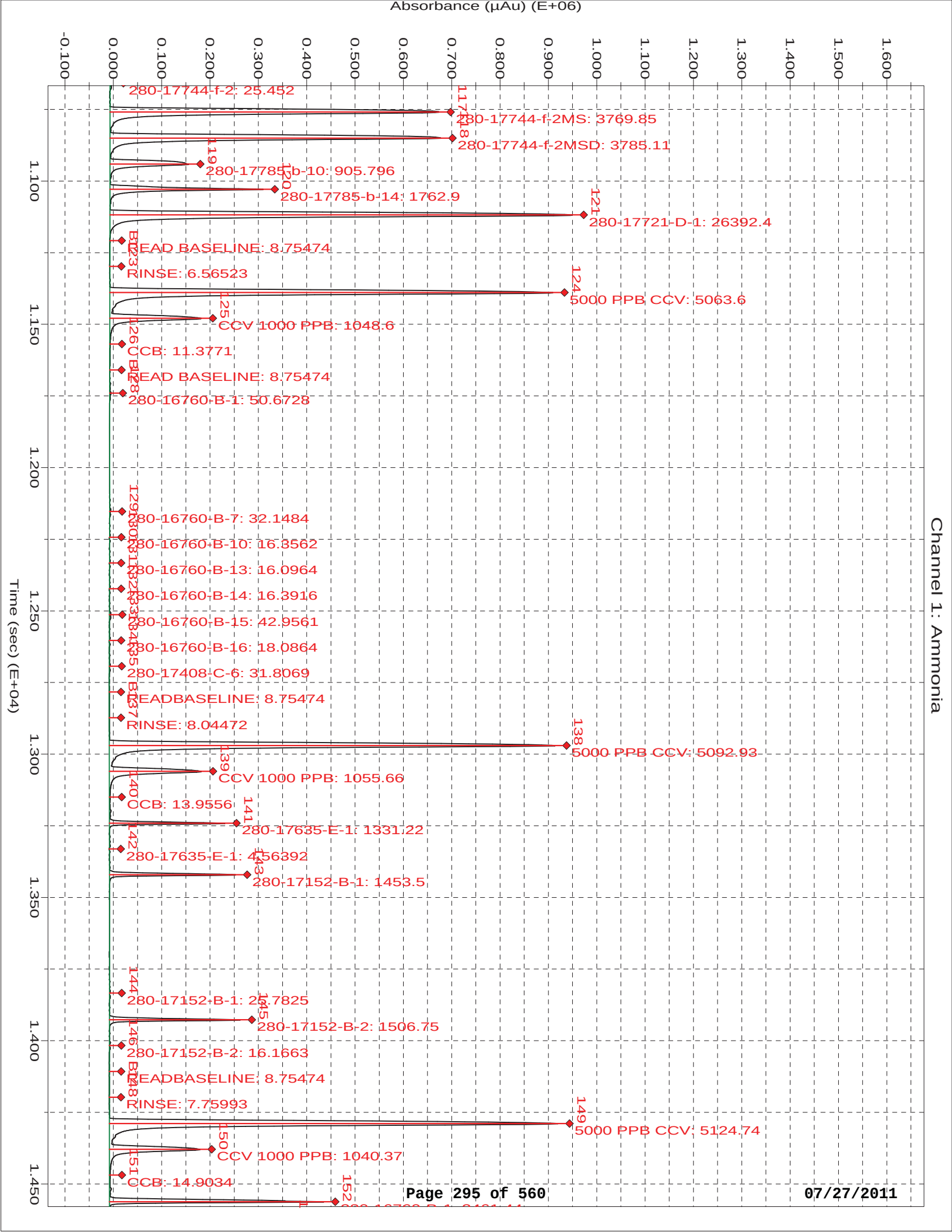
No Drift Peaks

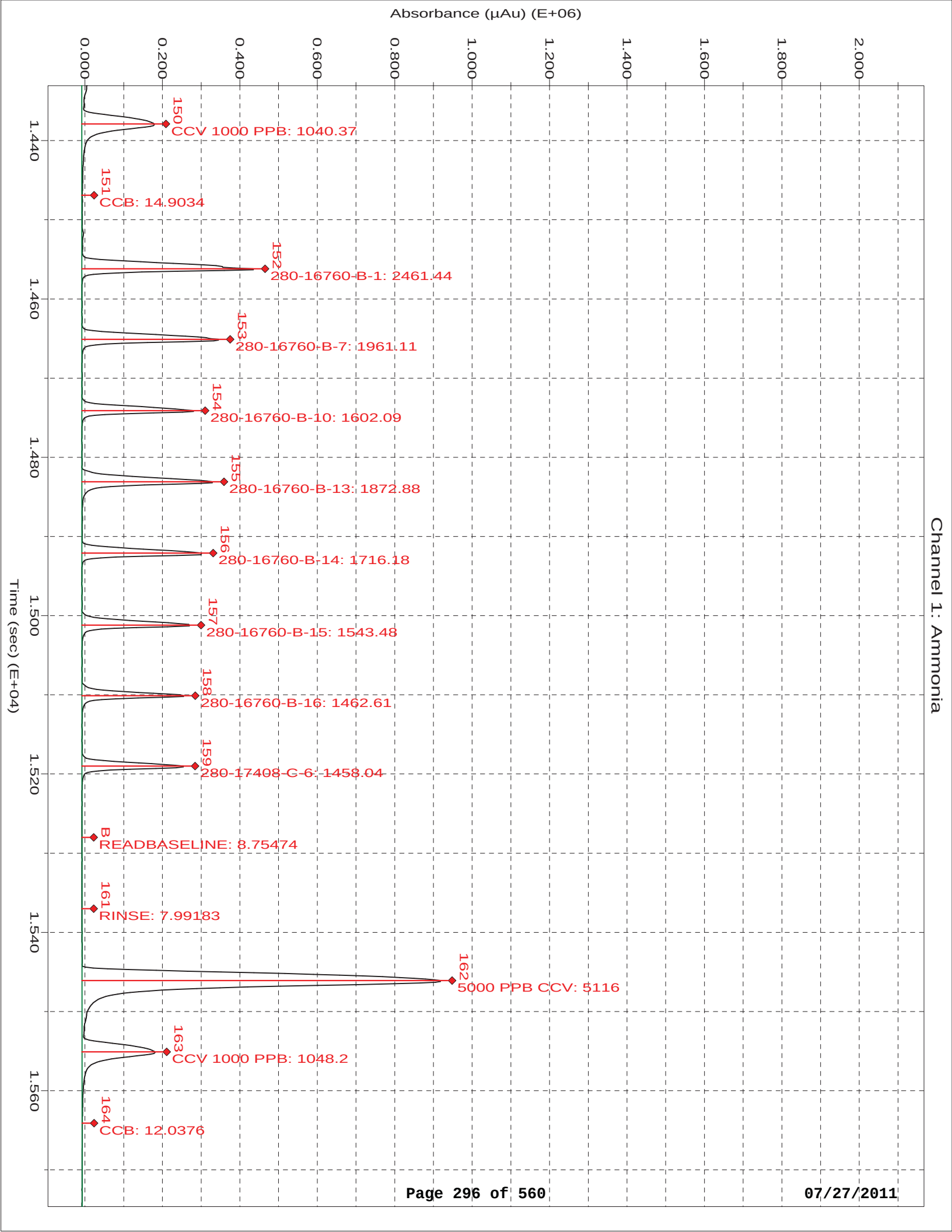

Ammonia:Calibration 1: Peak 5-164
Height (E+06)
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
-0.400
-0.200
0.000
0.200
0.400
0.600
0.800
1.000
1.200
Conc (E+04)
07/27/2011
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Absorbance (µAu) (E+06)
0.000
0.200
0.400
0.600
0.800
1.000
1.200
1.400
1.600
1.800
2.000
2.200
Time (sec)
500
1000
1500
2000
2500
3000
3500
4000
Channel 1: Ammonia
1 SYNC: 9881.38
2 Carryover: 22.0879
3 Carryover: 11.2111
4 B read baseline: 8.75474
5 Cal 0.00 ppb: 12.3982
6 Cal 50.0 ppb: 51.0157
7 Cal 100 ppb: 104.234
8 Cal 500 ppb: 479.807
9 Cal 1000 ppb: 999.926
10 Cal 5000 ppb: 5003.41
11 Cal 10000 ppb: 9999.19
12 blk: 8.59396
13 B READ BASELINE: 8.75474
14 5000 ppb NO2: 13.2745
15 ICV 2000 PPB: 1991.45
16 ICV 5000 PPB: 5092.39
17 icb: 11.059
18 MRL: 119.123
19 B READ BASELINE: 8.75474
20 MB: 11.2413
21 CS: 5039.52
22 LCSD: 5035.93
23 280-17408-c-6: 1412.41
24 280-17408-c-6MS: 2744.94
25 280-17408-c-6MSD: 2641.81
26 280-16905-d-7: 6130.32
27 280-16760-b-1: 2478.53
28 280-16760-b-7: 1912.94
29 280-16760-b-10: 1656.78
30 B READ BASELINE: 8.75474
31 RINSE: 8.45477
32 5000 PPB CCV: 5010.76
33 CCV 1000 PPB: 1045.72
34 CCB: 11.9012
35 B READ BASELINE: 8.75474
36 280-16760-b-13: 1712.86
37 280-16760-b-14: 1656.15
38 280-16760-b-15: 1491.44
39 280-16760-b-16: 1429.15
40 280-17628-e-1: 120263
41 280-17484-c-7: 34.8245
42 280-17484-b-3: 50.1093
43 280-17484-b-3MS: 3871.74
44 280-17484-b-3MSD: 3838.34
45 B 280-17630-b-1: 1.89507


Absorbance (µAu) (E+06)
0.000
0.100
0.200
0.300
0.400
0.500
0.600
0.700
0.800
0.900
1.000
1.100
1.200
1.300
1.400
1.500
1.600
1.700
Time (sec)
4500
5000
5500
6000
6500
7000
7500
8000
8500
Channel 1: Ammonia
280-17484-b-3: 50.1093
280-17484-b-3MS: 3871.74
280-17484-b-3MSD: 3838.34
280-17630-b-1: 1.89507
READ BASELINE: 8.75474
RINSE: 8.3887
5000 PPB CCV: 5006.29
CCV 1000 PPB: 1044.85
CCB: 11.9367
READ BASELINE: 8.75474
280-17152-b-1: 1316.02
280-17152-b-2: 1424.66
280-17039-b-14: 760.996
280-17635-e-1: 1234.73
280-17635-f-5: 104.739
280-17635-e-6: 105.145
280-17635-e-8: 19.5611
mb: 11.6893
lcs: 13.4798
lcsd: 13.8716
READ BASELINE: 8.75474
RINSE: 7.91994
5000 PPB CCV: 5034.74
CCV 1000 PPB: 1047.35
CCB: 12.4944
READ BASELINE: 8.75474
mb: 13.9129
lcs: 5046.2
lcsd: 5079.18
280-17752-a-1: 119.935
280-17752-a-1MS: 4399.01
280-17752-a-1MSD: 3733.65
280-17752-a-2: 17.414
280-17635-e-9: 12.2219
280-17245-c-2: 93.2454
280-17245-b-3: 562.62
READ BASELINE: 8.75474
RINSE: 8.14129
5000 PPB CCV: 5011.66
CCV 1000 PPB: 1051.91
CCB: 11.9068
READ BASELINE: 8.75474
280-17248-c-2: 100.306
280-17483-b-1: 55.2082
280-17483-b-1MS: 3831.27
280-17483-b-1MSD: 3788.67
280-17483-b-2: 1854.48
280-17483-b-3: 25.7542
280-17483-b-4: 1892.81
280-17483-b-5: 74.8113


Absorbance (µAu) (E+06)
0.000
0.200
0.400
0.600
0.800
1.000
1.200
1.400
1.600
1.800
2.000
2.200
2.400
2.600
2.800
Time (sec) (E+04)
0.850
0.900
0.950
1.000
1.050
1.100
Channel 1: Ammonia
90 280-17483-b-4: 1892.81
91 280-17483-b-5: 74.8113
B READBASELINE: 8.75474
93 RINSE: 7.83643
94 5000 PPB CCV: 5063.64
95 CCV 1000 PPB: 1030.06
96 CCB: 11.4733
B READ BASELINE: 8.75474
98 280-17483-b-6: 1526.58
99 280-17720-f-1: 55.7089
100 280-17721-d-1: 14431.9
101 280-17350-d-1: 175.579
102 280-17350-c-2: 17.4415
103 280-17152-B-1: 75.9917
104 280-17152-B-2: 65.1951
105 280-17635-E-1: 57.8846
B READBASELINE: 8.75474
107 RINSE: 8.09396
108 5000 PPB CCV: 5076.09
109 CCV 1000 PPB: 1046.67
110 CCB: 12.8024
B READ BASELINE: 8.75474
112 mb: 16.3661
113 lcs: 5049.35
114 lcsd: 5086.28
115 280-17532-d-1: 1601.74
116 280-17744-f-2: 25.452
117 280-17744-f-2MS: 3769.85
118 280-17744-f-2MSD: 3785.11
119 280-17785-b-10: 905.796
120 280-17785-b-14: 1762.9
121


Absorbance (µAu) (E+06)
-0.100
0.000
0.100
0.200
0.300
0.400
0.500
0.600
0.700
0.800
0.900
1.000
1.100
1.200
1.300
1.400
1.500
1.600
Time (sec) (E+04)
1.100
1.150
1.200
1.250
1.300
1.350
1.400
1.450
Channel 1: Ammonia
280-17744-f-2: 25.452
280-17744-f-2MS: 3769.85
280-17744-f-2MSD: 3785.11
280-17785-b-10: 905.796
280-17785-b-14: 1762.9
280-17721-D-1: 26392.4
BASELINE: 8.75474
RINSE: 6.56523
5000 PPB CCV: 5063.6
CCV 1000 PPB: 1048.6
CCB: 11.3771
BASELINE: 8.75474
280-16760-B-1: 50.6728
280-16760-B-7: 32.1484
280-16760-B-10: 16.3562
280-16760-B-13: 16.0964
280-16760-B-14: 16.3916
280-16760-B-15: 42.9561
280-16760-B-16: 18.0864
280-17408-C-6: 31.8069
BASELINEBASELINE: 8.75474
RINSE: 8.04472
5000 PPB CCV: 5092.93
CCV 1000 PPB: 1055.66
CCB: 13.9556
280-17635-E-1: 1331.22
280-17635-E-1: 4.56392
280-17152-B-1: 1453.5
280-17152-B-1: 25.7825
280-17152-B-2: 1506.75
280-17152-B-2: 16.1663
BASELINEBASELINE: 8.75474
RINSE: 7.75993
5000 PPB CCV: 5124.74
CCV 1000 PPB: 1040.37
CCB: 14.9034
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Absorbance (µAu) (E+06)
0.000
0.200
0.400
0.600
0.800
1.000
1.200
1.400
1.600
1.800
2.000
Time (sec) (E+04)
1.440
1.460
1.480
1.500
1.520
1.540
1.560
Channel 1: Ammonia
150
CCV 1000 PPB: 1040.37
151
CCB: 14.9034
152
280-16760-B-1: 2461.44
153
280-16760-B-7: 1961.11
154
280-16760-B-10: 1602.09
155
280-16760-B-13: 1872.88
156
280-16760-B-14: 1716.18
157
280-16760-B-15: 1543.48
158
280-16760-B-16: 1462.61
159
280-17408-C-6: 1458.04
B
READBASELINE: 8.75474
161
RINSE: 7.99183
162
5000 PPB CCV: 5116
163
CCV 1000 PPB: 1048.2
164
CCB: 12.0376

Wet Chemistry Data Review Checklist
For Tests with Calibration Curves

Test Name/ Method #: TKN/351.2 **SOP #** DY-WC-0026

Instrument: ASTORIA **Analyst:** MWOOLLEY **Analysis Date:** 7/16/2011

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
17245 1-3	WATER	76660	76964	351.2	N/A
17350 1,2	↓	↓	↓	↓	↓
17785 10,14					
17248-2					
17721-1					
16905-7	WATER				CONFIRM

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Minimum of five standards in ICAL or as specified in method?	✓			✓
2. Correlation coefficient ≥ 0.995 ?	✓			✓
3. Second-source ICV analyzed, and recovery within acceptance limits?	✓			✓
4. ICB analyzed immediately after the ICV & results < the RL	✓			-
5. CCV analyzed after every ten samples & recovery within acceptance limits?	✓			-
6. CCB analyzed after every CCV & results < RL?	✓			-
7. Absolute value of the intercept is < ± ½ the RL?	✓			-
B. Sample Results				-
1. All samples greater than highest calibration standard diluted and reanalyzed?			✓	-
2. Do associated RLs/MDLs reflect dilutions or limited sample volume?			✓	-
3. All reported results bracketed by in control CCV results?	✓			-
4. Sample analyses done within holding time?	✓			-
5. Initial pH check documented for all samples? (If Applicable)	✓			-
6. Preparation benchsheet completed and included in package?	✓			-
7. Client requirements reviewed and met?	✓			-
8. Were data manually transcribed from instrument printouts into TALS verified 100% including significant figures and correct units? (If Applicable)			✓	-
9. Do the prep and analysis dates in TALS reflect the actual dates?	✓			-
11. Raw data copies prepared, scanned, and uploaded?	✓			-
12. Manual integrations done properly and initialed and dated?			✓	-
13. STD/True Value information is updated and included?	✓			-
C. Preparation/Matrix QC				-
1. Method blank < RL or all reported samples > 10x blank have NCM?	✓			-
2. Method blank < ½ RL or NCM provided?	✓			-
3. LCS/LCSD run for batch and within QC limits?	✓			-
4. MS/MSD run at required frequency and within limits or NCM written?	✓			-
5. DUP run at required frequency and RPD within acceptance limits or NCM written?			✓	-

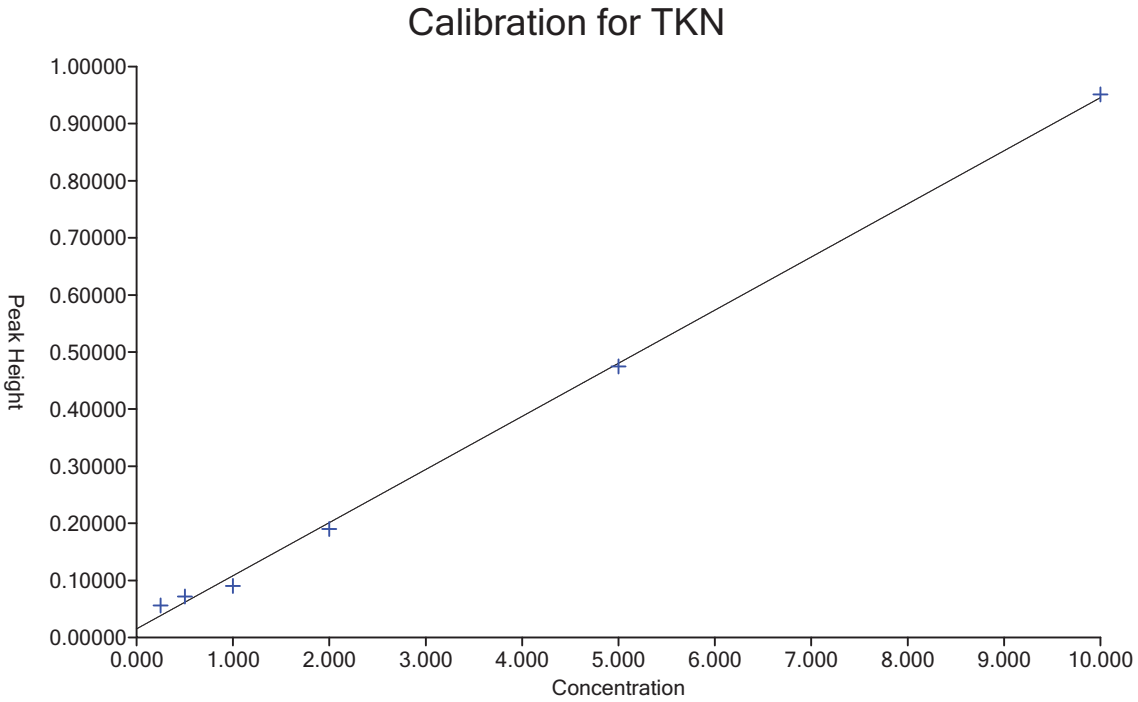
Analyst: [signature] **Date:** 7/18/2011

2nd Level Reviewer : [signature] **Date:** 7/18/11

Run Name: 071611TKN
Configuration: TKN
Run date: 7/16/2011

Analyst: Astoria
ICV/CCV TV: TKN
LCS/MS TV: 351.2

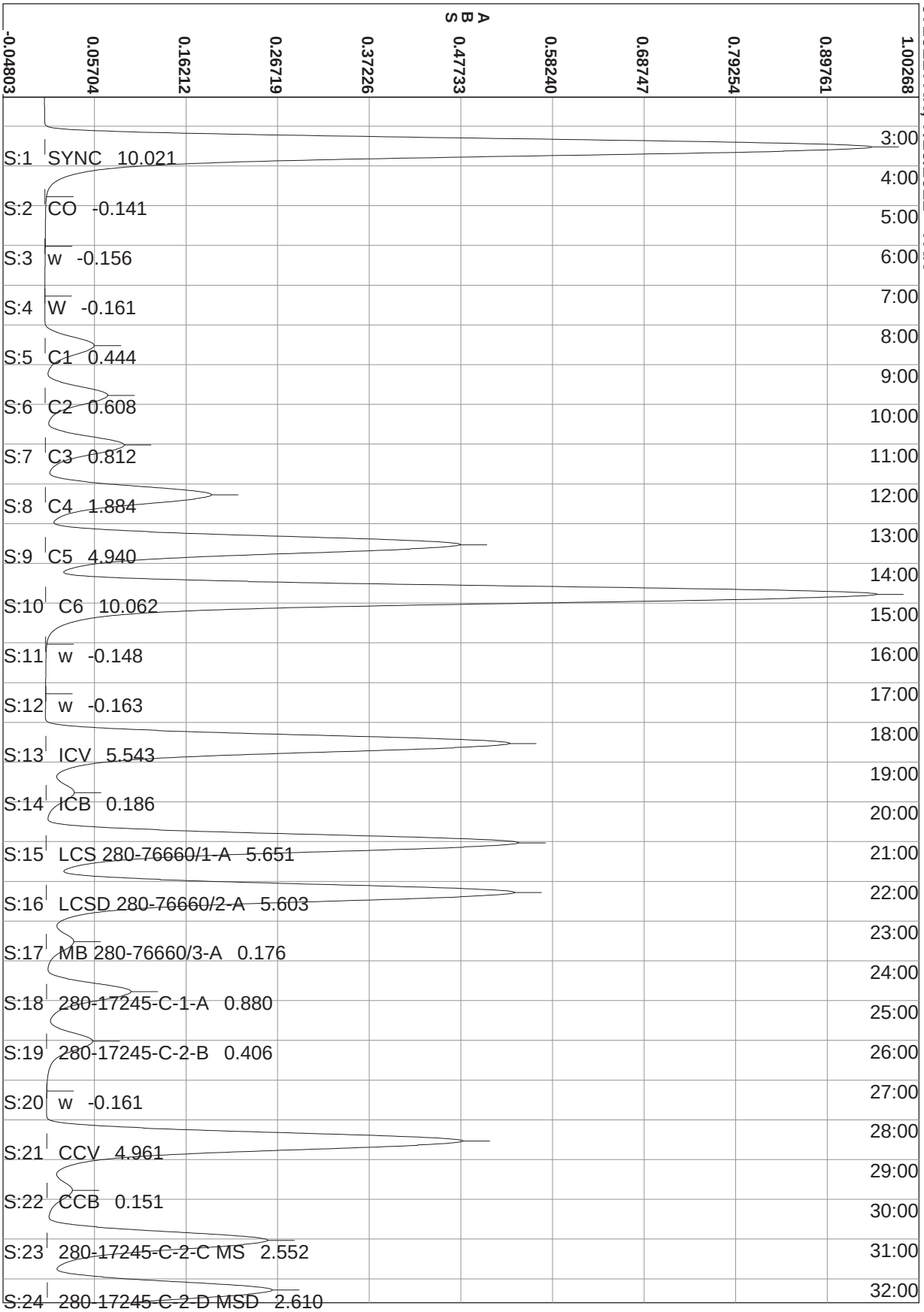
	›siti	Identifier	Type	Comment	Date	Time	Total	TKN mg/l
1	1:1	SYNC	SYNC	50;351.2	7/16/2011	7:01:12 PM	1	10.021
2	1:2	CO	Carry over		7/16/2011	7:01:43 PM	1	-0.141
3	1:3	w	Blank		7/16/2011	7:02:58 PM	1	-0.156
4	1:4	W	Wash		7/16/2011	7:04:13 PM	1	-0.161
5	1:5	C1	Calibrant		7/16/2011	7:05:29 PM	1	0.444
6	1:6	C2	Calibrant		7/16/2011	7:06:44 PM	1	0.608
7	1:7	C3	Calibrant		7/16/2011	7:07:59 PM	1	0.812
8	1:8	C4	Calibrant		7/16/2011	7:09:14 PM	1	1.884
9	1:9	C5	Calibrant		7/16/2011	7:10:30 PM	1	4.940
10	1:10	C6	Calibrant		7/16/2011	7:11:45 PM	1	10.062
		Curve #:						1
		Curve Type:						Linear
		Correlation:						0.99926
		Intercept:						0.014973
		Linear coef:						0.093047

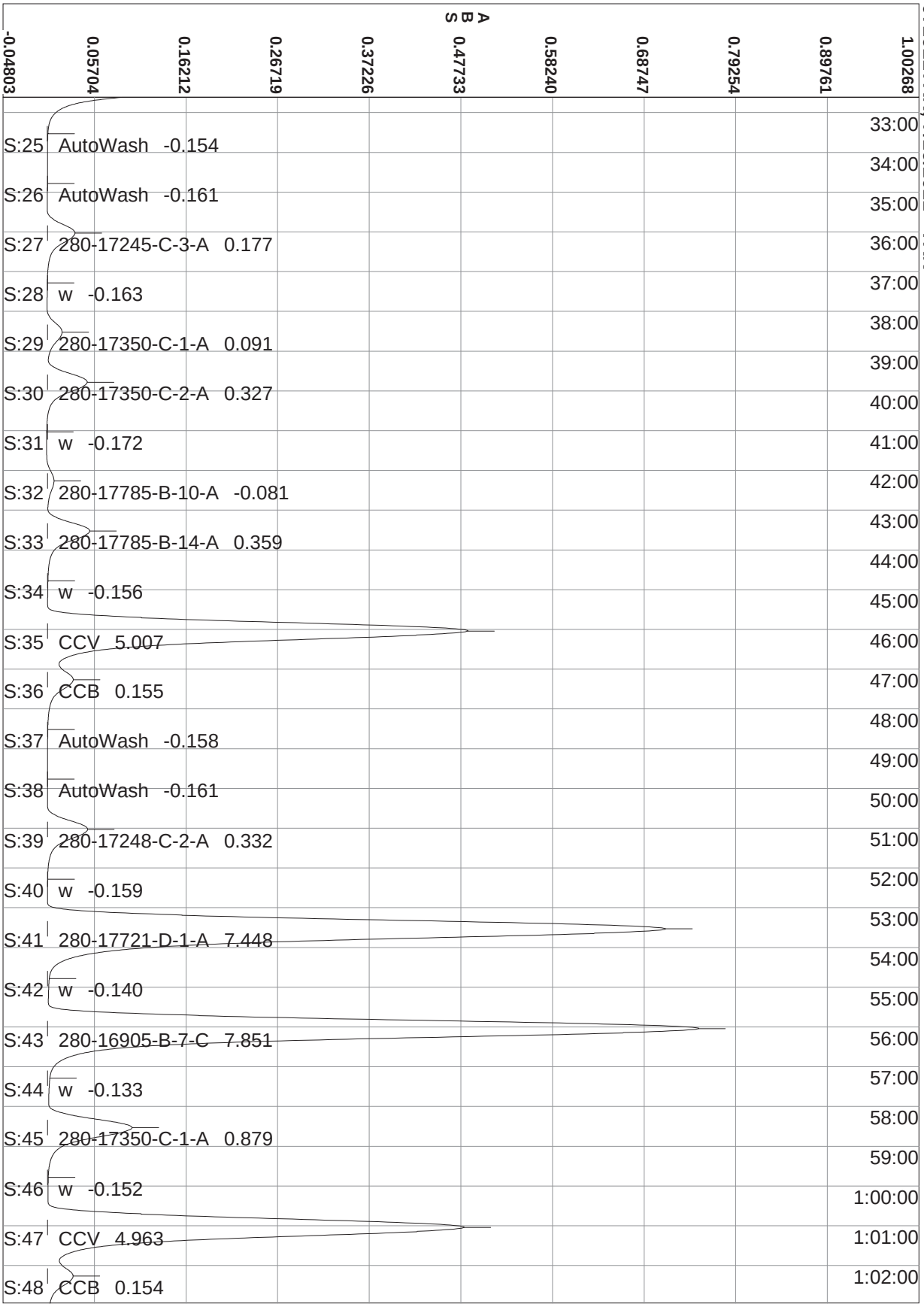


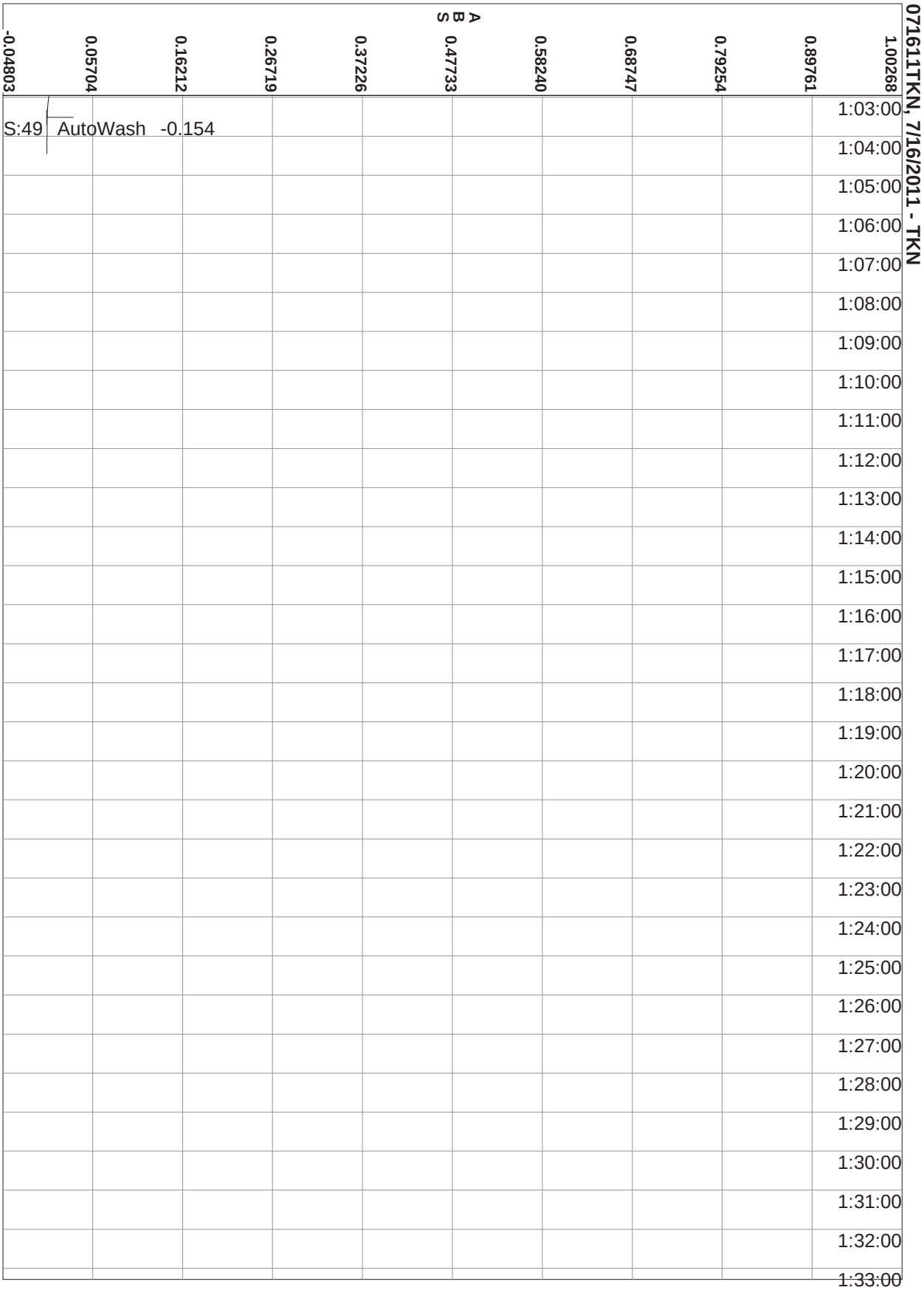
Segment 1: Equation: y = 0.09305x + 0.01497 X Range = 0.000 to 10.000
Correlation: 0.9993 Y Range = 0.00000 to 7.20000

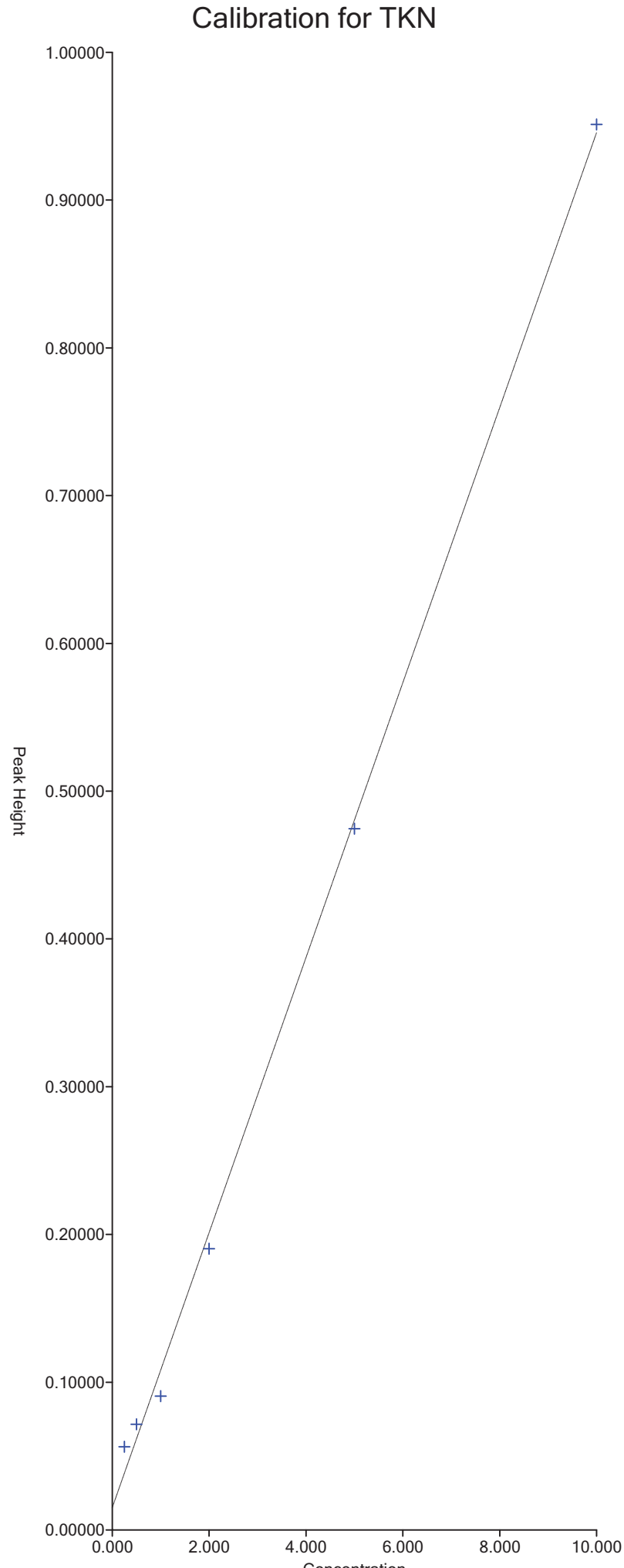
	›siti	Identifier	Type	Comment	Date	Time	Total	TKN mg/l
11	1:13	w	Blank		7/16/2011	7:13:00 PM	1	-0.148
12	1:14	w	Blank		7/16/2011	7:14:16 PM	1	-0.163
13	1:15	ICV	ICV		7/16/2011	7:15:31 PM	1	5.543
14	1:16	ICB	ICB		7/16/2011	7:16:46 PM	1	0.186
15	1:17	LCS 280-76660/1-A	Unknown		7/16/2011	7:18:02 PM	1	5.651

	›siti	Identifier	Type	Comment	Date	Time	Total	TKN mg/l
16	1:18	LCSD 280-76660/2-A	Unknown		7/16/2011	7:19:17 PM	1	5.603
17	1:19	MB 280-76660/3-A	Unknown		7/16/2011	7:20:32 PM	1	0.176
18	1:20	280-17245-C-1-A	Unknown		7/16/2011	7:21:48 PM	1	0.880
19	1:21	280-17245-C-2-B	Unknown		7/16/2011	7:23:03 PM	1	0.406
20	1:22	w	Blank		7/16/2011	7:24:18 PM	1	-0.161
21	1:23	CCV	CCV		7/16/2011	7:25:34 PM	1	4.961
22	1:24	CCB	CCB		7/16/2011	7:26:49 PM	1	0.151
23	1:25	280-17245-C-2-C MS	Unknown		7/16/2011	7:28:04 PM	1	2.552
24	1:26	280-17245-C-2-D MSD	Unknown		7/16/2011	7:29:19 PM	1	2.610
25	0	AutoWash	AutoWash		7/16/2011	7:30:35 PM	1	-0.154
26	0	AutoWash	AutoWash		7/16/2011	7:31:50 PM	1	-0.161
27	1:27	280-17245-C-3-A	Unknown		7/16/2011	7:33:05 PM	1	0.177
28	1:28	w	Blank		7/16/2011	7:34:21 PM	1	-0.163
29	1:29	280-17350-C-1-A	Unknown		7/16/2011	7:35:36 PM	5	0.091
30	1:30	280-17350-C-2-A	Unknown		7/16/2011	7:36:51 PM	1	0.327
31	1:31	w	Blank		7/16/2011	7:38:07 PM	1	-0.172
32	1:32	280-17785-B-10-A	Unknown		7/16/2011	7:39:22 PM	1	-0.081
33	1:33	280-17785-B-14-A	Unknown		7/16/2011	7:40:37 PM	1	0.359
34	1:34	w	Blank		7/16/2011	7:41:53 PM	1	-0.156
35	1:35	CCV	CCV		7/16/2011	7:43:08 PM	1	5.007
36	1:36	CCB	CCB		7/16/2011	7:44:23 PM	1	0.155
37	0	AutoWash	AutoWash		7/16/2011	7:45:38 PM	1	-0.158
38	0	AutoWash	AutoWash		7/16/2011	7:46:53 PM	1	-0.161
39	1:37	280-17248-C-2-A	Unknown		7/16/2011	7:48:09 PM	1	0.332
40	1:38	w	Blank		7/16/2011	7:49:24 PM	1	-0.159
41	1:39	280-17721-D-1-A	Unknown		7/16/2011	7:50:39 PM	1	7.448
42	1:40	w	Blank		7/16/2011	7:51:55 PM	1	-0.140
43	1:41	280-16905-B-7-C	Unknown		7/16/2011	7:53:10 PM	1	7.851
44	1:42	w	Blank		7/16/2011	7:54:25 PM	1	-0.133
45	1:43	280-17350-C-1-A	Unknown		7/16/2011	7:55:40 PM	1	0.879
46	1:44	w	Blank		7/16/2011	7:56:56 PM	1	-0.152
47	1:45	CCV	CCV		7/16/2011	7:58:11 PM	1	4.963
48	1:46	CCB	CCB		7/16/2011	7:59:26 PM	1	0.154
49	0	AutoWash	AutoWash		7/16/2011	8:00:42 PM	1	-0.154
50	0	AutoWash	AutoWash		7/16/2011	8:01:57 PM	1	???
51	1:47	w	Blank		7/16/2011	8:03:12 PM	1	???
52	1:48	w	Blank		7/16/2011	8:04:28 PM	1	???
53	0	AutoWash	AutoWash		7/16/2011	8:05:43 PM	1	???
54	0	AutoWash	AutoWash		7/16/2011	8:06:58 PM	1	???


071611TKN, 7/16/2011 - TKN
ABS
-0.04803
0.05704
0.16212
0.26719
0.37226
0.47733
0.58240
0.68747
0.79254
0.89761
1.00268
S:1 SYNC 10.021
S:2 CO -0.141
S:3 w -0.156
S:4 W -0.161
S:5 C1 0.444
S:6 C2 0.608
S:7 C3 0.812
S:8 C4 1.884
S:9 C5 4.940
S:10 C6 10.062
S:11 w -0.148
S:12 w -0.163
S:13 ICV 5.543
S:14 ICB 0.186
S:15 LCS 280-76660/1-A 5.651
S:16 LCSD 280-76660/2-A 5.603
S:17 MB 280-76660/3-A 0.176
S:18 280-17245-C-1-A 0.880
S:19 280-17245-C-2-B 0.406
S:20 w -0.161
S:21 CCV 4.961
S:22 CCB 0.151
S:23 280-17245-C-2-C MS 2.552
S:24 280-17245-C-2-D MSD 2.610
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
24:00
25:00
26:00
27:00
28:00
29:00
30:00
31:00
32:00


071611TKN, 7/16/2011 - TKN
-0.04803
0.05704
0.16212
0.26719
0.37226
ABS
0.47733
0.58240
0.68747
0.79254
0.89761
1.00268
33:00
S:25 AutoWash -0.154
34:00
S:26 AutoWash -0.161
35:00
S:27 280-17245-C-3-A 0.177
36:00
S:28 w -0.163
37:00
S:29 280-17350-C-1-A 0.091
38:00
S:30 280-17350-C-2-A 0.327
39:00
S:31 w -0.172
40:00
S:32 280-17785-B-10-A -0.081
41:00
S:33 280-17785-B-14-A 0.359
42:00
S:34 w -0.156
43:00
S:35 CCV 5.007
44:00
S:36 CCB 0.155
45:00
S:37 AutoWash -0.158
46:00
S:38 AutoWash -0.161
47:00
S:39 280-17248-C-2-A 0.332
48:00
S:40 w -0.159
49:00
S:41 280-17721-D-1-A 7.448
50:00
S:42 w -0.140
51:00
S:43 280-16905-B-7-C 7.851
52:00
S:44 w -0.133
53:00
S:45 280-17350-C-1-A 0.879
54:00
S:46 w -0.152
55:00
S:47 CCV 4.963
56:00
S:48 CCB 0.154
57:00
58:00
59:00
1:00:00
1:01:00
1:02:00


071611TKN, 7/16/2011 - TKN
ABS
-0.04803
0.05704
0.16212
0.26719
0.37226
0.47733
0.58240
0.68747
0.79254
0.89761
1.00268
S:49 AutoWash -0.154
1:03:00
1:04:00
1:05:00
1:06:00
1:07:00
1:08:00
1:09:00
1:10:00
1:11:00
1:12:00
1:13:00
1:14:00
1:15:00
1:16:00
1:17:00
1:18:00
1:19:00
1:20:00
1:21:00
1:22:00
1:23:00
1:24:00
1:25:00
1:26:00
1:27:00
1:28:00
1:29:00
1:30:00
1:31:00
1:32:00
1:33:00



Segment 1: Equation: y = 0.09305x + 0.01497 X Range = 0.000 to 10.000
Correlation: 0.9993 Y Range = 0.00000 to 7.20000

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver Wet Chemistry Data Review Checklist
For Titration Methods

ANALYTE: Hardness ANALYST: AA ANALYSIS DATE: 7/14/11 SOP: WC-0060

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
17197	W	N/A	76596	2340C	MS/MSD
17245	↓	↓	↓	↓	
17248					
17739					
18009					

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Was the normality of the titrant verified and found acceptable?	✓			✓
B. Sample Results				
1. Are all sample dilutions appropriate and do associated RLs/MDLs reflect required dilutions or limited sample volume?	✓			✓
2. All reported results bracketed by in control CCV/CCB?	✓		✓	✓
3. Sample analyses done within holding time?	✓			✓
4. Initial pH check documented for all samples (if required)?	✓			✓
5. Preparation benchsheet completed and included in package (if applicable)?	✓		✓	✓
6. Special client requirements checked?	✓			✓
7. Was data manually transcribed from instrument printouts into TALS verified 100% including significant figures? (If Applicable)	✓			✓
8. Do the prep and analysis dates in TALS reflect the actual dates?	✓			✓
9. STD/True Value information is updated and included?	✓			✓
10. Raw data copies prepared, scanned, and uploaded?	✓			✓
C. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10x blank have NCM?	✓			✓
2. Method blank < ½ RL or NCM provided?	✓			✓
3. LCS/LCSD run for batch and within QC limits?	✓			✓
4. MS/MSD run at required frequency and within limits or NCM written?	✓			✓
5. DUP run at required frequency and RPD within 20% or NCM written?			✓	✓

Analyst: _____ **Date:** 7/14/11

Comments: _____

2nd Level Reviewer : _____ **Date:** 7/14/11

Comments: _____

Wet Chemistry Data Review Checklist
For Tests with Calibration Curves

Test Name/ Method #: IC **SOP #** WC # 0020

Instrument: IC8 **Analyst:** E. Kundla **Analysis Date:** 06-22-11

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
280 - 17237, 17248	AQ		73686		-/Q4
17245, 17286	"		73687		Q4/-

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Minimum of five standards in ICAL or as specified in method?	~			✓
2. Correlation coefficient ≥ 0.995 ?	–			✓
3. Second-source ICV analyzed, and recovery within acceptance limits?	–			✓
4. ICB analyzed immediately after the ICV & results < the RL	–			✓
5. CCV analyzed after every ten samples & recovery within acceptance limits?	–			✓
6. CCB analyzed after every CCV & results < RL?	–			✓
7. Absolute value of the intercept is < ± ½ the RL?	–			✓
B. Sample Results				
1. All samples greater than highest calibration standard diluted and reanalyzed?	–			✓
2. Do associated RLs/MDLs reflect dilutions or limited sample volume?	–			✓
3. All reported results bracketed by in control CCV results?	–			✓
4. Sample analyses done within holding time?	–			✓
5. Initial pH check documented for all samples? (If Applicable)			–	✓
6. Preparation benchsheet completed and included in package?			–	✓
7. Client requirements reviewed and met?	–			✓
8. Were data manually transcribed from instrument printouts into TALS verified 100% including significant figures and correct units? (If Applicable)	–			✓
9. Do the prep and analysis dates in TALS reflect the actual dates?	–			✓
11. Raw data copies prepared, scanned, and uploaded?	–			✓
12. Manual integrations done properly and initialed and dated?	–			✓
13. STD/True Value information is updated and included?	–			✓
C. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10x blank have NCM?	–			✓
2. Method blank < ½ RL or NCM provided?	–			✓
3. LCS/LCSD run for batch and within QC limits?	–			✓
4. MS/MSD run at required frequency and within limits or NCM written?	–			✓
5. DUP run at required frequency and RPD within acceptance limits or NCM written?	–			✓

Analyst: Ellmaf **Date:** 06-24-11

2nd Level Reviewer : D.b **Date:** 06-27-11

Title: Temporary sequence for manual data acquisition
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11
Timebase: ICS-8 Created: 6/22/2011 9:39:41 AM by wetchemd
#Samples: 62 Last Update: 6/24/2011 8:26:17 AM by wetchemd

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
1	RT CHECK	Unknown	118	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 12:09:10 PM	1.0000
2	cal1	Standard	78	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 12:25:55 PM	1.0000
3	cal2	Standard	79	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 12:42:41 PM	1.0000
4	cal3	Standard	77	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 12:59:27 PM	1.0000
5	cal4	Standard	79	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 1:16:12 PM	1.0000
6	cal5	Standard	4	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 1:32:58 PM	1.0000
7	cal6	Standard	4	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 1:49:44 PM	1.0000
8	BLK	Unknown	6	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 2:06:30 PM	1.0000
9	ICV STD #00508	Unknown	126	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 2:23:18 PM	1.0000
10	ICB	Unknown	126	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 2:40:12 PM	1.0000
11	ICV STD #00510	Unknown	128	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 9:22:28 AM	1.0000
12	ICB	Unknown	127	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 9:59:54 AM	1.0000
13	MRL	Unknown	124	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:16:42 AM	1.0000
14	LCS STD#00510	Unknown	119	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:33:31 AM	1.0000
15	LCSD	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:50:19 AM	1.0000
16	MB	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 11:07:06 AM	1.0000
17	280-17237-d-1	Unknown	119	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 11:56:48 AM	1.0000
18	280-17237-d-2	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 12:13:36 PM	1.0000
19	280-17237-d-3	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 12:30:24 PM	1.0000
20	280-17237-d-4	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 12:47:12 PM	1.0000
21	280-17237-d-5	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 1:04:01 PM	1.0000
22	280-17237-d-6	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 1:20:49 PM	1.0000
23	280-17237-d-7	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 1:37:37 PM	1.0000
24	DU 280-17237-d-7	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 1:54:26 PM	1.0000
25	280-17237-d-8	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 2:11:14 PM	1.0000
26	280-17248-a-1	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 2:28:02 PM	1.0000
27	CCV	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 2:44:50 PM	1.0000
28	CCB	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 3:01:39 PM	1.0000
29	280-17248-b-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 3:18:27 PM	1.0000
30	DU 280-17248-b-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 3:35:15 PM	1.0000
31	MS 280-17248-b-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 3:52:03 PM	1.0000
32	MSD 280-17248-b-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 4:08:51 PM	1.0000
33	280-17245-b-1	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 4:25:40 PM	1.0000
34	280-17245-b-2	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 4:42:28 PM	1.0000
35	280-17245-a-3 2X	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 4:59:15 PM	1.0000
36	280-17248-b-2 5X	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 5:16:04 PM	1.0000
37	280-17286-h-1 2X	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 6:12:14 PM	1.0000
38	280-17286-v-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 6:29:02 PM	1.0000
39	CCV	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 6:45:50 PM	1.0000
40	CCB	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 7:02:38 PM	1.0000
41	280-17286-h-3	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 7:19:27 PM	1.0000
42	280-17286-h-4 2X	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 7:36:15 PM	1.0000
43	DU 280-17286-v-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 7:53:03 PM	1.0000
44	MS 280-17286-v-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 8:09:51 PM	1.0000

Title: Temporary sequence for manual data acquisition
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11
Timebase: ICS-8 Created: 6/22/2011 9:39:41 AM by wetchemd
#Samples: 62 Last Update: 6/24/2011 8:26:17 AM by wetchemd

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
1	RT CHECK	1.0000	1.0000	100		EMK
2	cal1	1.0000	1.0000	101		EMK
3	cal2	1.0000	1.0000	102		EMK
4	cal3	1.0000	1.0000	103		EMK
5	cal4	1.0000	1.0000	104		EMK
6	cal5	1.0000	1.0000	105		EMK
7	cal6	1.0000	1.0000	106		EMK
8	BLK	1.0000	1.0000	107		EMK
9	ICV STD #00508	1.0000	1.0000	108		EMK
10	ICB	1.0000	1.0000	109		EMK
11	ICV STD #00510	1.0000	1.0000	110		EMK
12	ICB	1.0000	1.0000	111		EMK
13	MRL	1.0000	1.0000	112		EMK
14	LCS STD#00510	1.0000	1.0000	113		EMK
15	LCSD	1.0000	1.0000	114		EMK
16	MB	1.0000	1.0000	115		EMK
17	280-17237-d-1	1.0000	1.0000	116		EMK
18	280-17237-d-2	1.0000	1.0000	117		EMK
19	280-17237-d-3	1.0000	1.0000	118		EMK
20	280-17237-d-4	1.0000	1.0000	119		EMK
21	280-17237-d-5	1.0000	1.0000	120		EMK
22	280-17237-d-6	1.0000	1.0000	121		EMK
23	280-17237-d-7	1.0000	1.0000	122		EMK
24	DU 280-17237-d-7	1.0000	1.0000	123		EMK
25	280-17237-d-8	1.0000	1.0000	124		EMK
26	280-17248-a-1	1.0000	1.0000	125		EMK
27	CCV	1.0000	1.0000	126		EMK
28	CCB	1.0000	1.0000	127		EMK
29	280-17248-b-2	1.0000	1.0000	128		EMK
30	DU 280-17248-b-2	1.0000	1.0000	129		EMK
31	MS 280-17248-b-2	1.0000	1.0000	130		EMK
32	MSD 280-17248-b-2	1.0000	1.0000	131		EMK
33	280-17245-b-1	1.0000	1.0000	132		EMK
34	280-17245-b-2	1.0000	1.0000	133		EMK
35	280-17245-a-3 2X	2.0000	1.0000	134		EMK
36	280-17248-b-2 5X	5.0000	1.0000	135		EMK
37	280-17286-h-1 2X	2.0000	1.0000	136		EMK
38	280-17286-v-2	1.0000	1.0000	137		EMK
39	CCV	1.0000	1.0000	138		EMK
40	CCB	1.0000	1.0000	139		EMK
41	280-17286-h-3	1.0000	1.0000	140		EMK
42	280-17286-h-4 2X	2.0000	1.0000	141		EMK
43	DU 280-17286-v-2	1.0000	1.0000	142		EMK
44	MS 280-17286-v-2	1.0000	1.0000	143		EMK

Title: Temporary sequence for manual data acquisition
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11
Timebase: ICS-8 Created: 6/22/2011 9:39:41 AM by wetchemd
#Samples: 62 Last Update: 6/24/2011 8:26:17 AM by wetchemd

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
45	MSD 280-17286-v-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 8:26:39 PM	1.0000
46	280-17245-a-3 50X	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 8:43:28 PM	1.0000
47	280-17248-a-1 5X	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 9:00:16 PM	1.0000
48	280-17286-h-1 10X	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 9:17:04 PM	1.0000
49	280-17286-h-1 50X	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 9:33:53 PM	1.0000
50	280-17286-h-3 5X	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 9:50:41 PM	1.0000
51	CCV	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:07:29 PM	1.0000
52	CCB	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:24:17 PM	1.0000
53	280-17286-h-3 10X	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:41:05 PM	1.0000
54	280-17286-h-4 10X	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:57:53 PM	1.0000
55	280-17286-h-4 50X	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 11:14:41 PM	1.0000
56	ICV	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 11:31:29 PM	1.0000
57	CCV	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 11:48:18 PM	1.0000
58	CCB	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/23/2011 12:05:06 AM	1.0000
59	280-17245-a-3 20x	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/23/2011 7:15:31 AM	1.0000
60	CCV	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/23/2011 7:32:19 AM	1.0000
61	CCB	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/23/2011 7:49:07 AM	1.0000
62	END	Unknown	410	10.0	stop	7 ANION AS11	Finished	6/23/2011 12:21:54 AM	1.0000

Title: Temporary sequence for manual data acquisition
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11
Timebase: ICS-8 Created: 6/22/2011 9:39:41 AM by wetchemd
#Samples: 62 Last Update: 6/24/2011 8:26:17 AM by wetchemd

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
45	MSD 280-17286-v-2	1.0000	1.0000	144		EMK
46	280-17245-a-3 50X	50.0000	1.0000	145		EMK
47	280-17248-a-1 5X	5.0000	1.0000	146		EMK
48	280-17286-h-1 10X	10.0000	1.0000	147		EMK
49	280-17286-h-1 50X	50.0000	1.0000	148		EMK
50	280-17286-h-3 5X	5.0000	1.0000	149		EMK
51	CCV	1.0000	1.0000	150		EMK
52	CCB	1.0000	1.0000	151		EMK
53	280-17286-h-3 10X	10.0000	1.0000	152		EMK
54	280-17286-h-4 10X	10.0000	1.0000	153		EMK
55	280-17286-h-4 50X	50.0000	1.0000	154		EMK
56	ICV	1.0000	1.0000	155		EMK
57	CCV	1.0000	1.0000	156		EMK
58	CCB	1.0000	1.0000	157		EMK
59	280-17245-a-3 20x	20.0000	1.0000	158		EMK
60	CCV	1.0000	1.0000	159		EMK
61	CCB	1.0000	1.0000	160		EMK
62	END	1.0000	1.0000	161		EMK

Title:
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Created: 3/20/2008 10:44:59 AM by kudlae
Timebase: ICS-8 Changed: 3/31/2008 10:13:48 AM by kudlae

```
           Pressure.LowerLimit =              200 [psi]
           Pressure.UpperLimit =              3000 [psi]
           %A.Equate =                        "DI H2O"
           CR_TC =                            On
           Pump_InjectValve.State             LoadPosition
           Data_Collection_Rate =             5.0 [Hz]
           CellTemperature.Nominal =          35.0 [°C]
           ColumnTemperature.Nominal =        30.0 [°C]
           Suppressor_Type =                  ASRS_4mm
           ; Pump_ECD.Hydroxide =             50.0
           ; Pump_ECD.Recommended Current =   124
           ; Pump_ECD.Carbonate =             0.0
           ; Pump_ECD.Bicarbonate =           0.0
           ; Pump_ECD.Tetraborate =           0.0
           ; Pump_ECD.Other eluent =          0.0
           Suppressor_Current =               125 [mA]
           Flow =                             1.00 [ml/min]

-2.700     Pump_ECD_Relay_1.Open              Duration=0.01
           Concentration =                    10.00 [mM]
           Curve =                            5

-2.500     Pump_ECD_Relay_1.Closed            Duration=0.01

 0.000     Autozero
           ECD_1.AcqOn
           Pump_InjectValve.InjectPosition    Duration=720.00

 7.500     Concentration =                    10.00 [mM]
           Curve =                            5

10.500     Concentration =                    40.00 [mM]
           Curve =                            5

10.600     Concentration =                    50.00 [mM]
           Curve =                            5

12.500     Concentration =                    50.00 [mM]
           Curve =                            5

12.600     Concentration =                    10.00 [mM]
           Curve =                            5

13.000     Concentration =                    10.00 [mM]
```

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Title:
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Created: 3/20/2008 10:44:59 AM by kudlae
Timebase: ICS-8 Changed: 3/31/2008 10:13:48 AM by kudlae

```
           Curve =                          5

14.000     ECD_1.AcqOff
           End
```

Chromeleon © Dionex Corporation, Version 6.80 SP3 Build 2345 (128616)

Title:
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ
Timebase: ICS-8
Created: 3/20/2008 10:44:59 AM by kudlae
Changed: 3/31/2008 10:13:48 AM by kudlae

No.	Channel	Operation	Parameters

Title: Stop
Datasource: D3YCYMF1_local Created: 3/11/2008 4:10:47 PM by Test America Labs
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ
Timebase: ICS-8 Changed: 3/11/2008 4:10:47 PM by Test America Labs

```
           ColumnTemperature =                Off
           CellTemperature.Nominal =          Off
; Pump_ECD.Hydroxide =                        50.0
; Pump_ECD.Recommended Current =              124
; Pump_ECD.Carbonate =                        0.0
; Pump_ECD.Bicarbonate =                      0.0
; Pump_ECD.Tetraborate =                      0.0
; Pump_ECD.Other eluent =                     0.0
           Pressure.LowerLimit =              200
           Pressure.UpperLimit =              3000
           %A.Equate =                        "DI H2O"
           CR_TC =                            Off
           ;LoadPosition
           Data_Collection_Rate =             5.0
           Suppressor_Type =                  ASRS_4mm
           Suppressor_Current =               124
           Suppressor_Mode =                  Off
           ECD_Total.Step =                   0.50
           ECD_Total.Average =                Off
           Channel_Pressure.Step =            0.50
           Channel_Pressure.Average =         Off

           Pump_ECD_Relay_1.Open
           Concentration =                    10.00
           Curve =                            5

           Pump_ECD_Relay_1.State             Open
           Mode =                             Off
           Flow =                             1.00

 0.000     off

           End
```

Chromeleon © Dionex Corporation, Version 6.80 SP3 Build 2345 (128616)

Title: Stop
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ
Timebase: ICS-8
Created: 3/11/2008 4:10:47 PM by Test America Labs
Changed: 3/11/2008 4:10:47 PM by Test America Labs

No.	Channel	Operation	Parameters

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Minimum Area	0.5E-3 "[Signal]*min"	All Channels
2	0.000	Sensitivity	0.8E-3 "[Signal]"	All Channels
3	0.000	Inhibit Integration	On	All Channels
4	0.000	Valley to Valley	On	All Channels
5	0.000	Fronting Sensitivity Factor	5.0	All Channels
6	0.000	Tailing Sensitivity Factor	7.0	All Channels
7	1.500	Void Volume Treatment	On	All Channels
8	1.500	Inhibit Integration	Off	All Channels
9	1.800	Void Volume Treatment	Off	All Channels
10	2.000	Maximum Width	0.75 min	All Channels
11	8.000	Inhibit Integration	On	All Channels
12	11.000	Inhibit Integration	Off	All Channels

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount BLK	Amount cal1
1	*Fluoride*	*1.900 min*	*5.000 RN*	*External*	*Area*	*XLOff*	*Auto*		*Autogenerated*	*0.000000*	*0.100000*
2	Acetate	2.600 min	3.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.100000
3	Chloride	3.300 min	5.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.500000
4	Nitrite	3.800 min	5.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.100000
5	Bromide	6.300 min	5.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.100000
6	Nitrate	6.800 min	5.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.100000
7	Sulfate	11.400 min	5.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.500000
8	Ortho as P	12.600 min	5.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.100000

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Amount cal2	Amount cal3	Amount cal4	Amount cal5	Amount cal6
1	*Fluoride*	*1.900 min*	*0.500000*	*1.000000*	*4.000000*	*8.000000*	*10.000000*
2	Acetate	2.600 min	0.500000	1.000000	4.000000	8.000000	10.000000
3	Chloride	3.300 min	2.500000	5.000000	20.000000	40.000000	50.000000
4	Nitrite	3.800 min	0.500000	1.000000	4.000000	8.000000	10.000000
5	Bromide	6.300 min	0.500000	1.000000	4.000000	8.000000	10.000000
6	Nitrate	6.800 min	0.500000	1.000000	4.000000	8.000000	10.000000
7	Sulfate	11.400 min	2.500000	5.000000	20.000000	40.000000	50.000000
8	Ortho as P	12.600 min	0.500000	1.000000	4.000000	8.000000	10.000000

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Amount Table:

Dimension of Amounts: mg/L
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 7
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Left Limit	Right Limit	Group	Resp.Fact.
1	*Fluoride*	*1.900 min*	*5.000 RN*	*External*	*Area*	*XLOff*	*Auto*	*0.000*	*0.000*		*1.000000*
2	Acetate	2.600 min	3.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000
3	Chloride	3.300 min	5.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000
4	Nitrite	3.800 min	5.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000
5	Bromide	6.300 min	5.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000
6	Nitrate	6.800 min	5.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000
7	Sulfate	11.400 min	5.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000
8	Ortho as P	12.600 min	5.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Amount Table:

Dimension of Amounts: mg/L
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 7
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Comment
1	*Fluoride*	*1.900 min*	*Autogenerated*
2	Acetate	2.600 min	Autogenerated
3	Chloride	3.300 min	Autogenerated
4	Nitrite	3.800 min	Autogenerated
5	Bromide	6.300 min	Autogenerated
6	Nitrate	6.800 min	Autogenerated
7	Sulfate	11.400 min	Autogenerated
8	Ortho as P	12.600 min	Autogenerated

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	cal1	2	78	10.0	1.0000	1.0000	1.0000	6/20/2011 12:2	EMK
2	☒	cal2	3	79	10.0	1.0000	1.0000	1.0000	6/20/2011 12:4	EMK
3	☒	cal3	4	77	10.0	1.0000	1.0000	1.0000	6/20/2011 12:5	EMK
4	☒	cal4	5	79	10.0	1.0000	1.0000	1.0000	6/20/2011 1:16:	EMK
5	☒	cal5	6	4	10.0	1.0000	1.0000	1.0000	6/20/2011 1:32:	EMK
6	☒	cal6	7	4	10.0	1.0000	1.0000	1.0000	6/20/2011 1:49:	EMK

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Calib.	Comment
1	☒	cal1	Ok	
2	☒	cal2	Ok	
3	☒	cal3	Ok	
4	☒	cal4	Ok	
5	☒	cal5	Ok	
6	☒	cal6	Ok	

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Channel	Peak	N.A.
1									

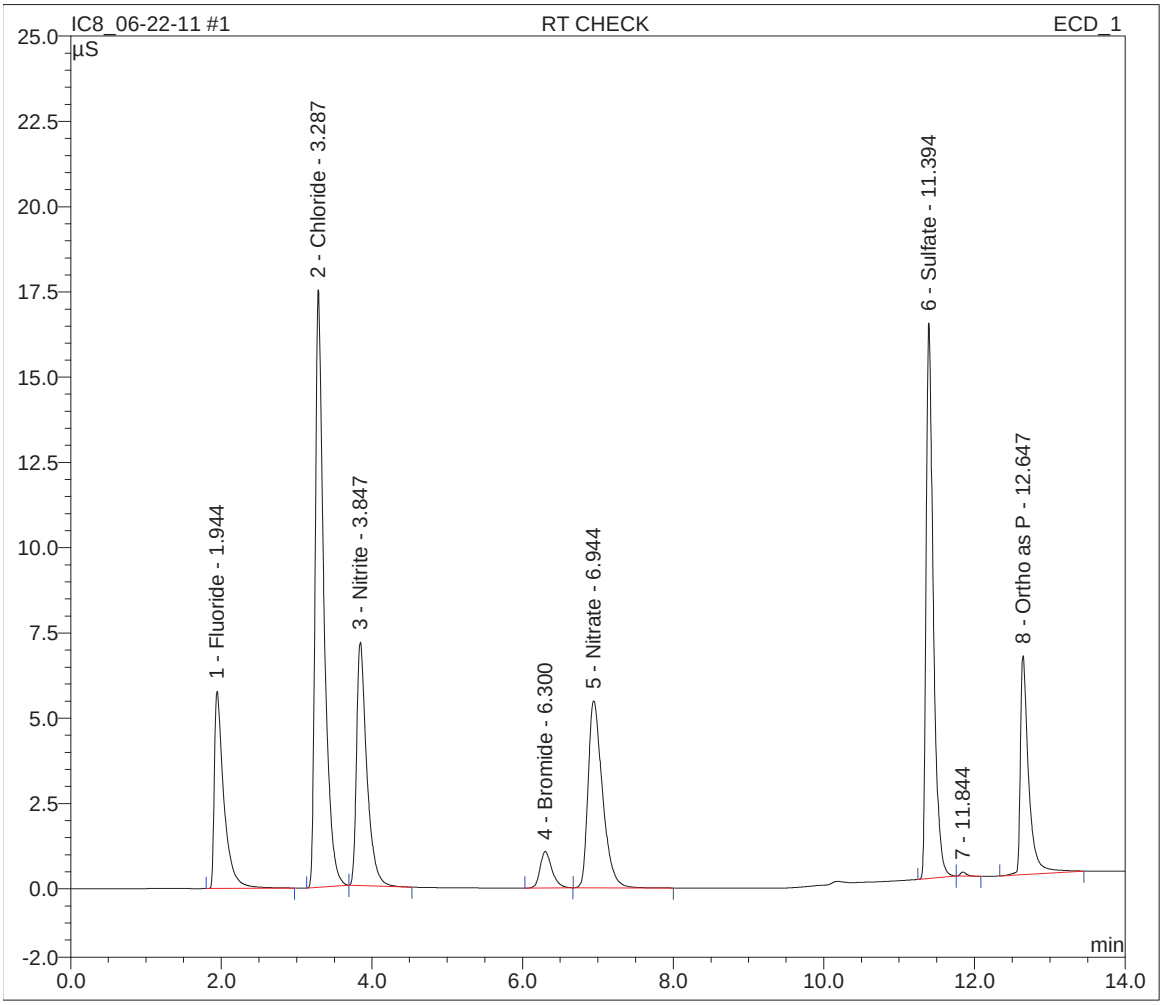
Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message	Rounding
1					

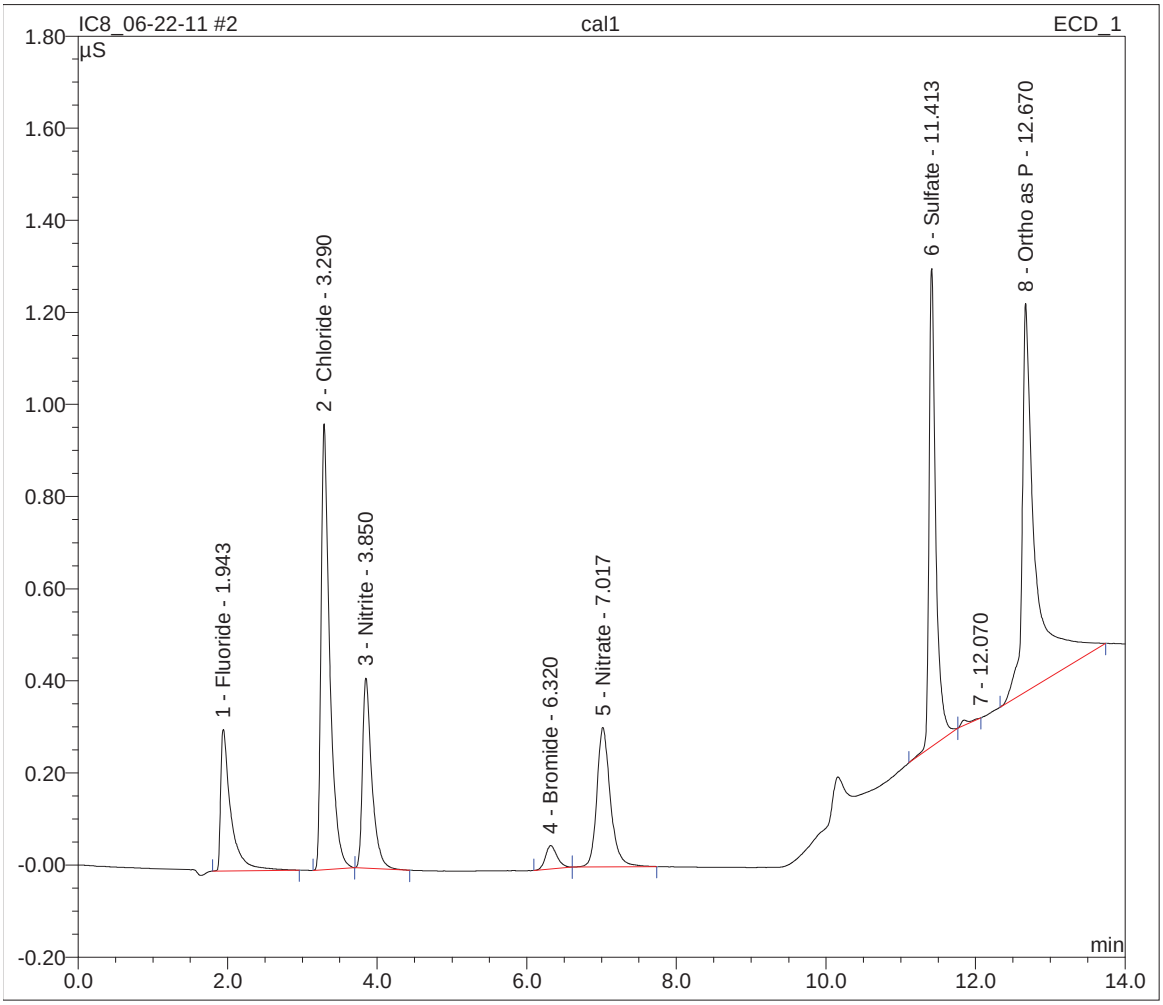
Sample Name:	**RT CHECK**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 12:09**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.846	5.779	2.0549
2	3.29	Chloride	BMB	2.377	17.522	9.8698
3	3.85	Nitrite	bMB	1.118	7.144	2.0879
4	6.30	Bromide	BMB	0.193	1.072	1.9452
5	6.94	Nitrate	BMB	1.213	5.472	1.9761
6	11.39	Sulfate	BMb	1.821	16.292	9.8399
8	12.65	Ortho as P	BMB	0.812	6.421	2.1896
		TOTAL:		8.38	59.70	29.96



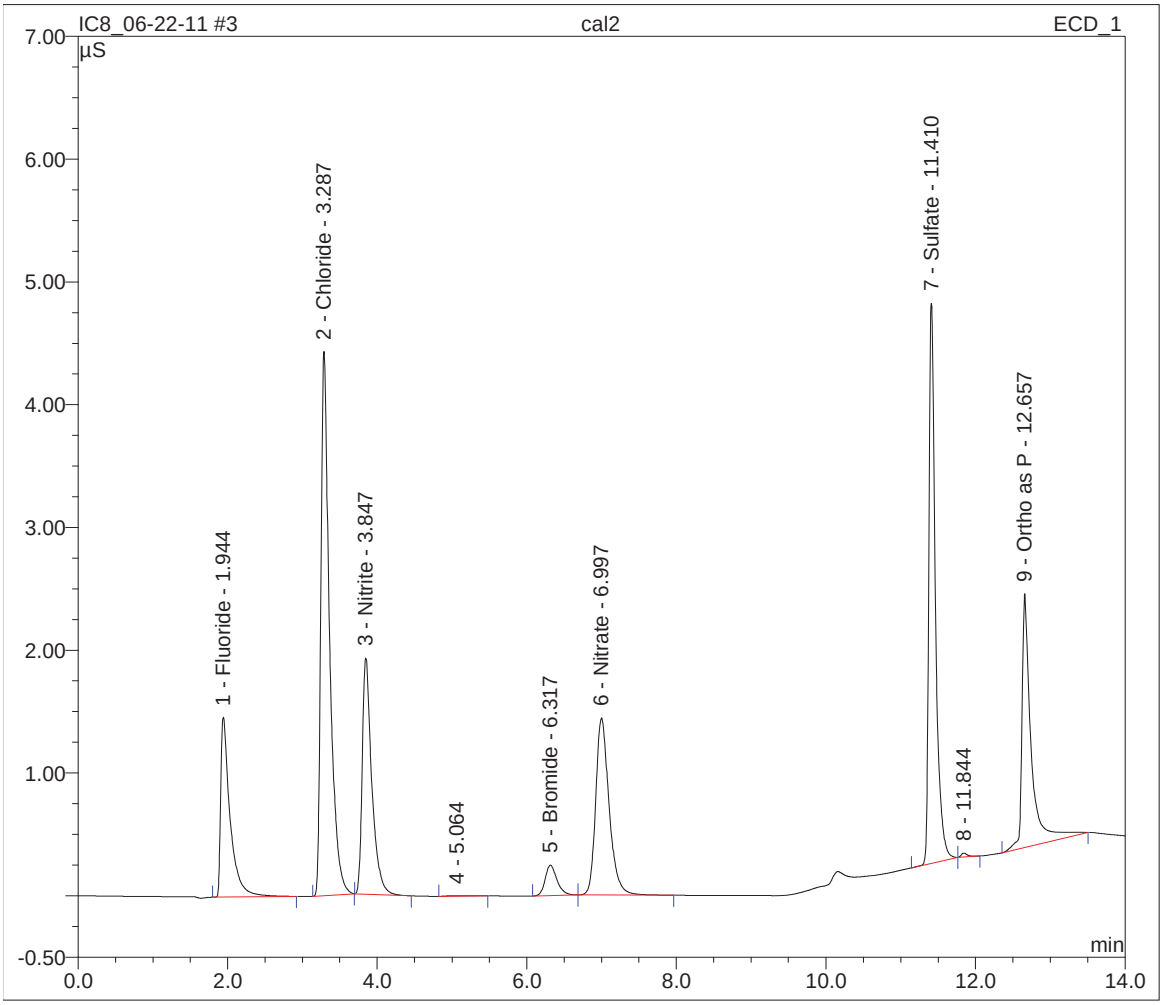
Sample Name:	**cal1**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 12:25**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.048	0.307	0.0944
2	3.29	Chloride	BMB	0.130	0.969	0.5064
3	3.85	Nitrite	BMB	0.060	0.413	0.0898
4	6.32	Bromide	BMB	0.009	0.051	0.1087
5	7.02	Nitrate	bMB	0.063	0.303	0.1029
6	11.41	Sulfate	BMB	0.107	1.039	0.5103
8	12.67	Ortho as P	BMB	0.176	0.844	0.0975
		TOTAL:		0.59	3.93	1.51



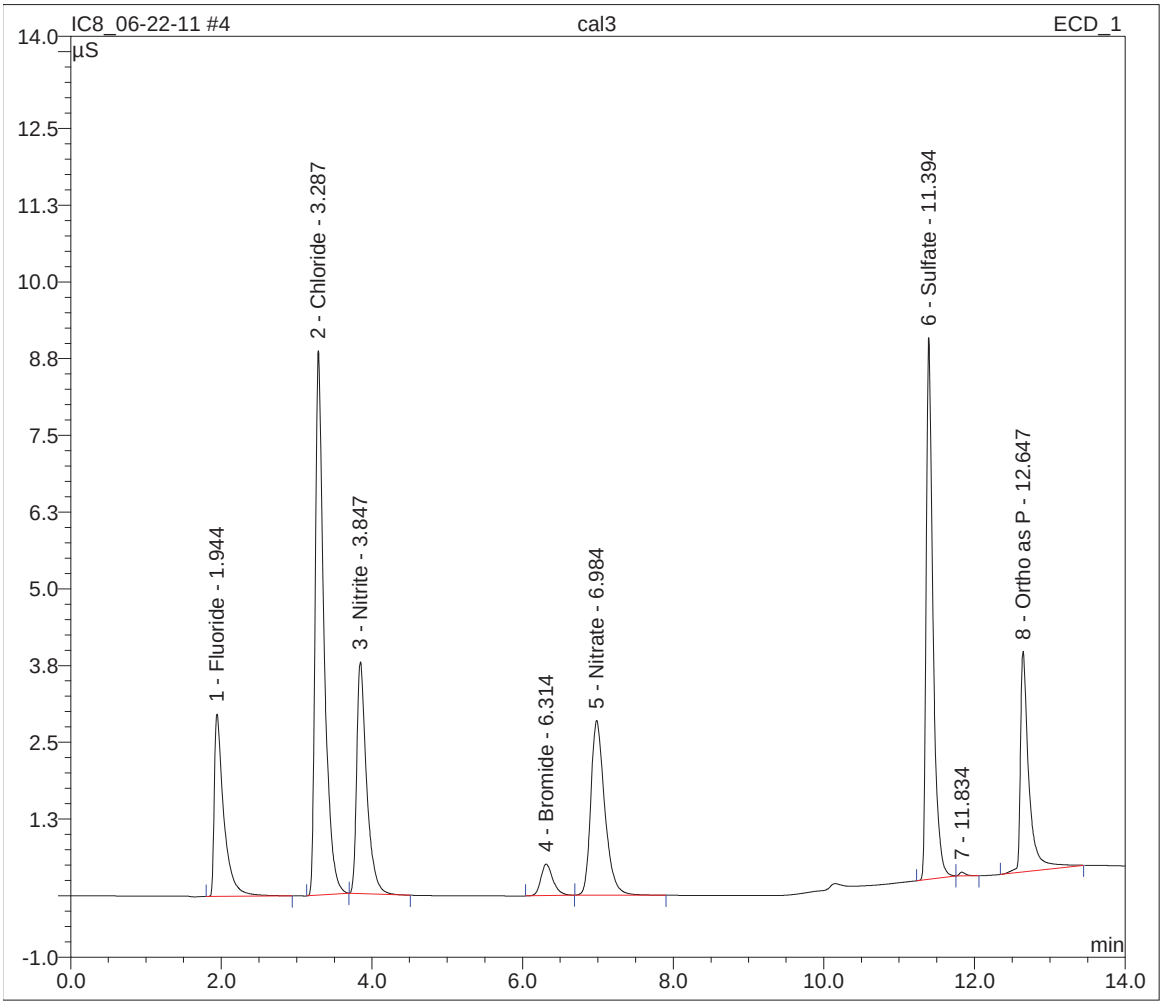
Sample Name:	**cal2**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 12:42**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.214	1.463	0.5011
2	3.29	Chloride	BMB	0.600	4.432	2.4659
3	3.85	Nitrite	BMB	0.284	1.925	0.5140
5	6.32	Bromide	BMb	0.045	0.248	0.4701
6	7.00	Nitrate	bMB	0.299	1.441	0.4870
7	11.41	Sulfate	BMb	0.464	4.562	2.4508
9	12.66	Ortho as P	BMB	0.292	2.067	0.4788
		TOTAL:		2.20	16.14	7.37



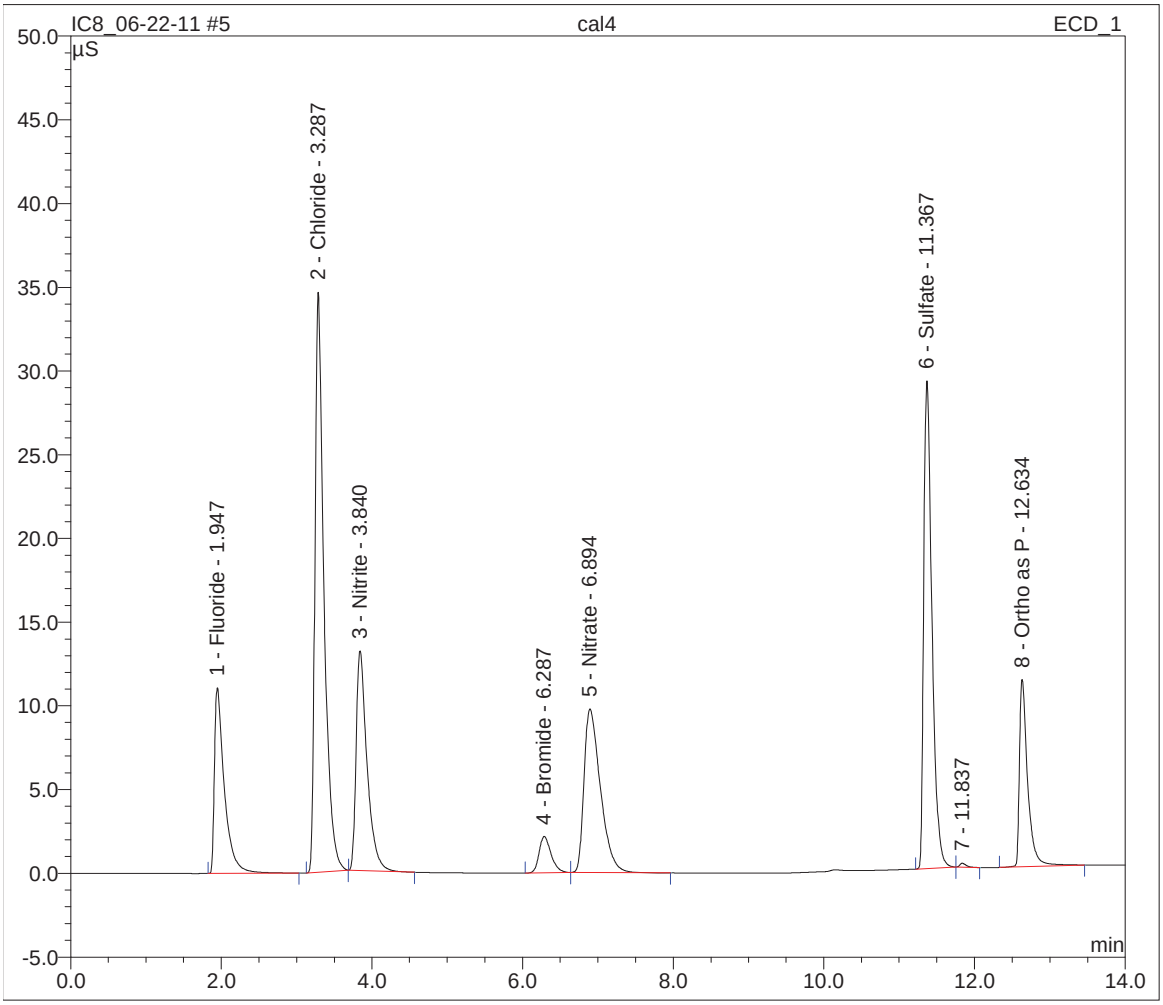
Sample Name:	**cal3**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 12:59**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.432	2.969	1.0385
2	3.29	Chloride	BMB	1.208	8.865	4.9981
3	3.85	Nitrite	BMB	0.573	3.779	1.0591
4	6.31	Bromide	BMB	0.095	0.515	0.9642
5	6.98	Nitrate	BMB	0.610	2.844	0.9936
6	11.39	Sulfate	BMB	0.929	8.825	4.9829
8	12.65	Ortho as P	BMB	0.465	3.595	1.0460
		TOTAL:		4.31	31.39	15.08



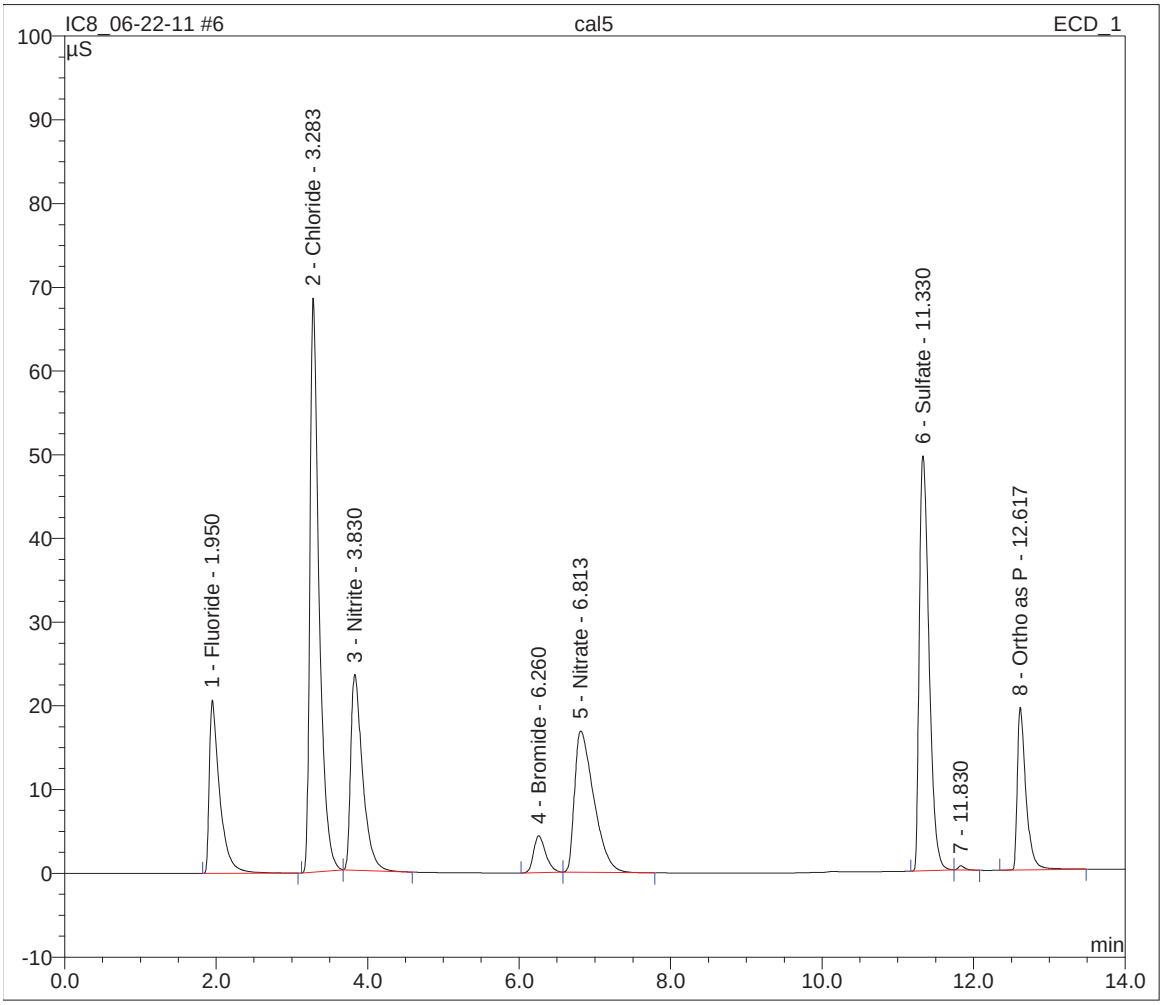
Sample Name:	**cal4**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 13:16**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	1.688	11.079	4.1232
2	3.29	Chloride	BMB	4.806	34.658	19.9923
3	3.84	Nitrite	BMB	2.205	13.133	4.1401
4	6.29	Bromide	BMB	0.399	2.173	4.0047
5	6.89	Nitrate	BMB	2.457	9.768	4.0051
6	11.37	Sulfate	BMb	3.690	29.132	20.0128
8	12.63	Ortho as P	BMB	1.410	11.183	4.1565
		TOTAL:		16.65	111.12	60.43



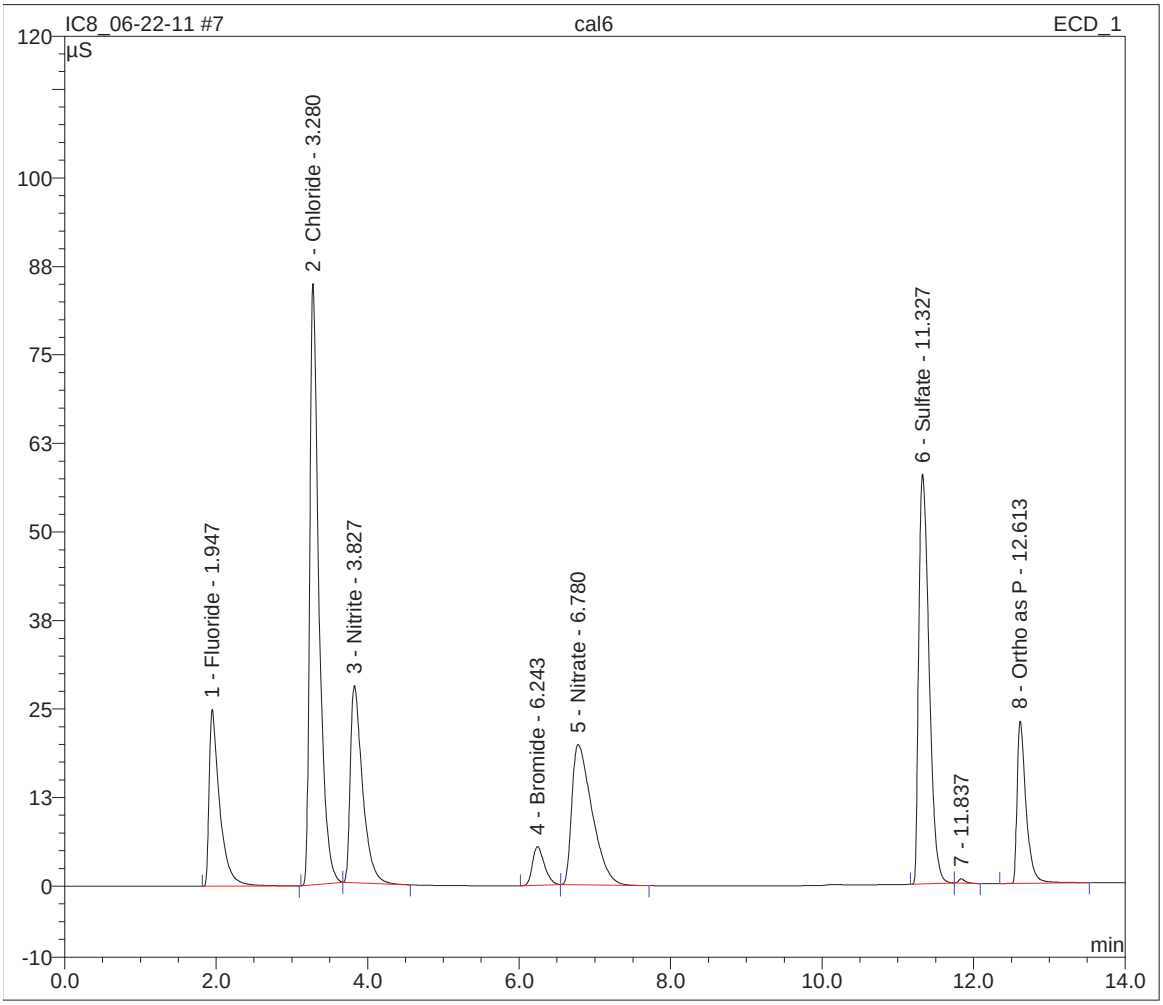
Sample Name:	**cal5**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 13:32**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	3.275	20.693	8.0224
2	3.28	Chloride	BMb	9.647	68.592	40.1693
3	3.83	Nitrite	bMB	4.258	23.409	8.0158
4	6.26	Bromide	BMB	0.808	4.407	8.0832
5	6.81	Nitrate	bMB	4.939	16.841	8.0494
6	11.33	Sulfate	BMb	7.400	49.578	40.2120
8	12.62	Ortho as P	BMB	2.580	19.415	8.0060
		TOTAL:		32.91	202.93	120.56



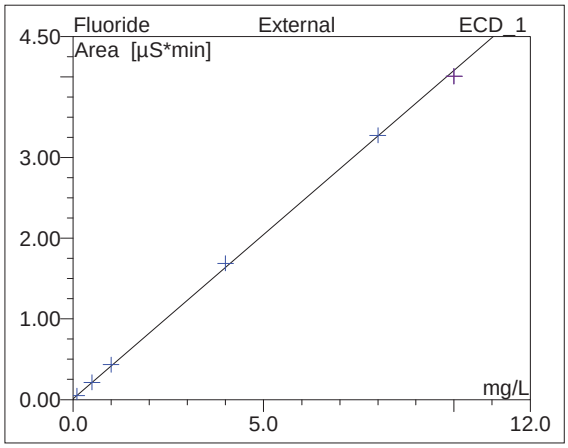
Sample Name:	**cal6**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 13:49**	*Run Time:*	**14.00**

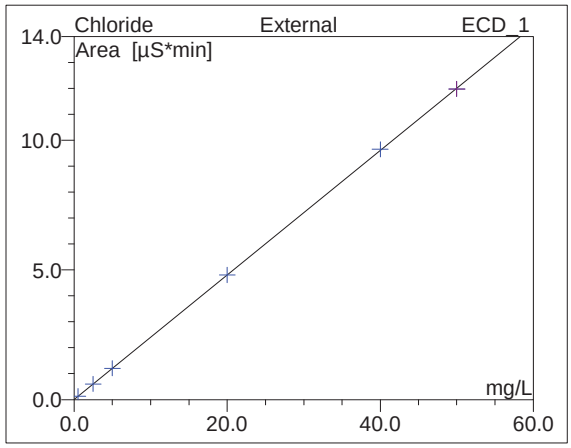
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	4.006	24.950	9.8204
2	3.28	Chloride	BMb	11.974	84.886	49.8680
3	3.83	Nitrite	bMB	5.193	27.834	9.7812
4	6.24	Bromide	BMB	0.997	5.473	9.9692
5	6.78	Nitrate	BMB	6.112	19.792	9.9621
6	11.33	Sulfate	BMb	9.167	57.875	49.8312
8	12.61	Ortho as P	BMB	3.129	22.899	9.8152
		TOTAL:		40.58	243.71	149.05

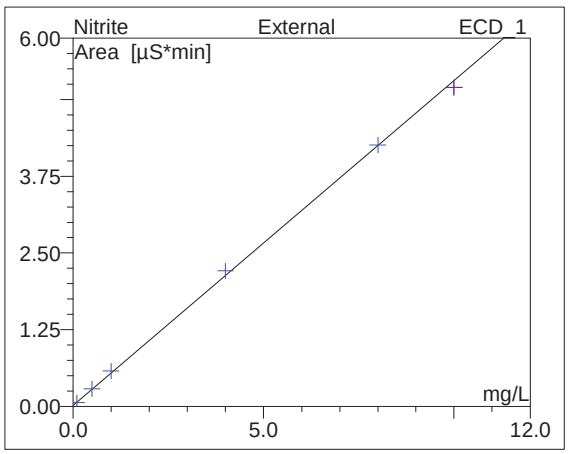


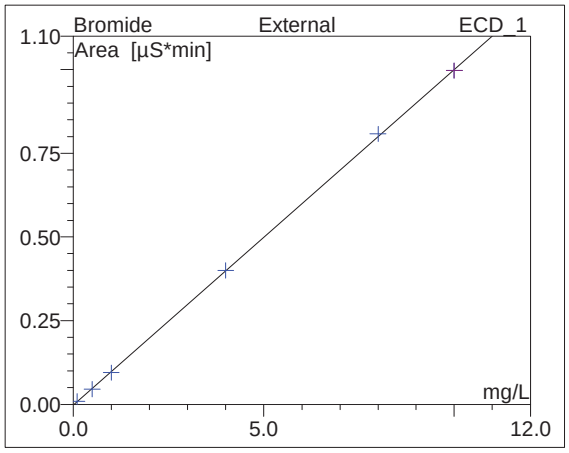
Calibration Batch Report

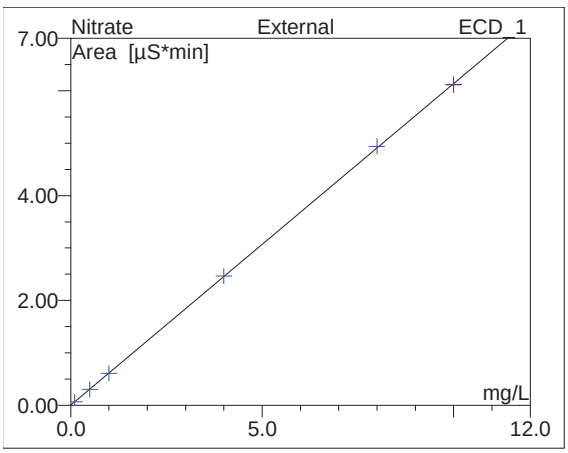
Sequence:	**IC8_06-22-11**	Inj. Vol.:	**10.0**
Program:	**7 Anion**	Operator:	**DENPC241**
Inj. Date/Time:	**06/20/11 13:49**	Run Time:	**14.00**

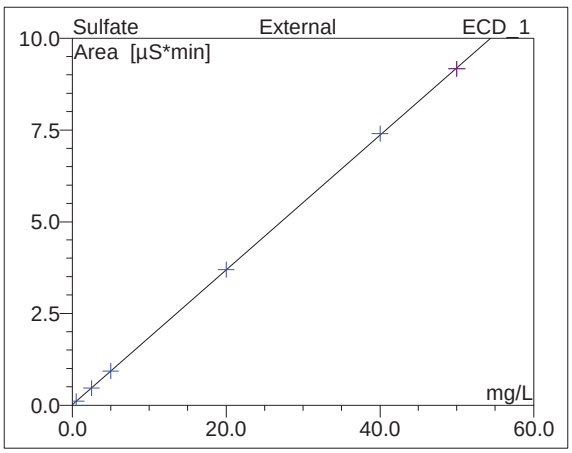




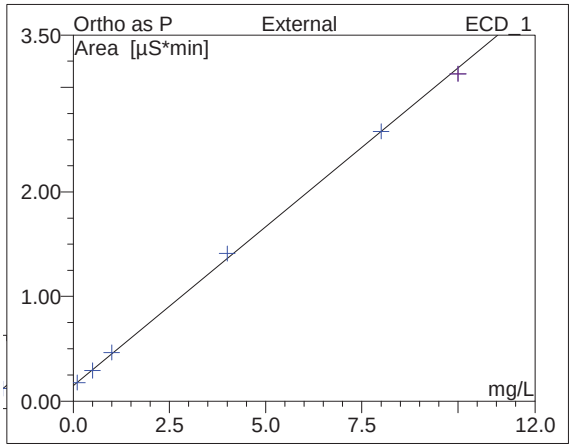








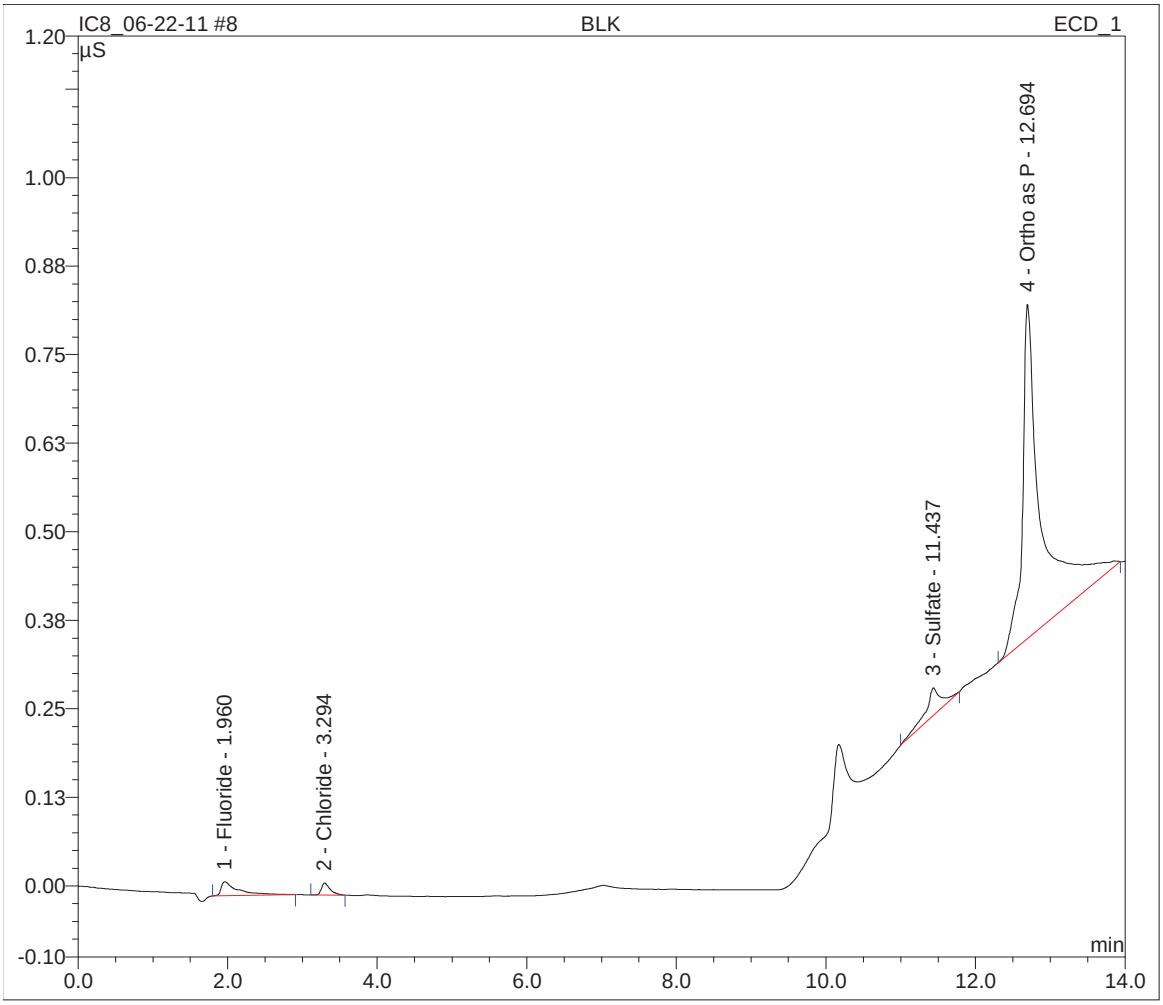
Program:	**7 Anion**	*Operator:*	**n.a.**
Ini. Date/Time:	**06/20/11 13:49**	*Run Time:*	**14.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	1.95	Fluoride	XLOff	6	0.010	0.407	0.000	99.979
2	3.28	Chloride	XLOff	6	0.009	0.240	0.000	99.999
3	3.83	Nitrite	XLOff	6	0.012	0.530	0.000	99.965
4	6.24	Bromide	XLOff	6	-0.002	0.100	0.000	99.989
5	6.78	Nitrate	XLOff	6	0.000	0.614	0.000	99.998
6	11.33	Sulfate	XLOff	6	0.013	0.184	0.000	99.999
8	12.61	Ortho as P	XLOff	6	0.147	0.304	0.000	99.970
AVERAGE:					0.0270	0.3397	0.0000	99.9854

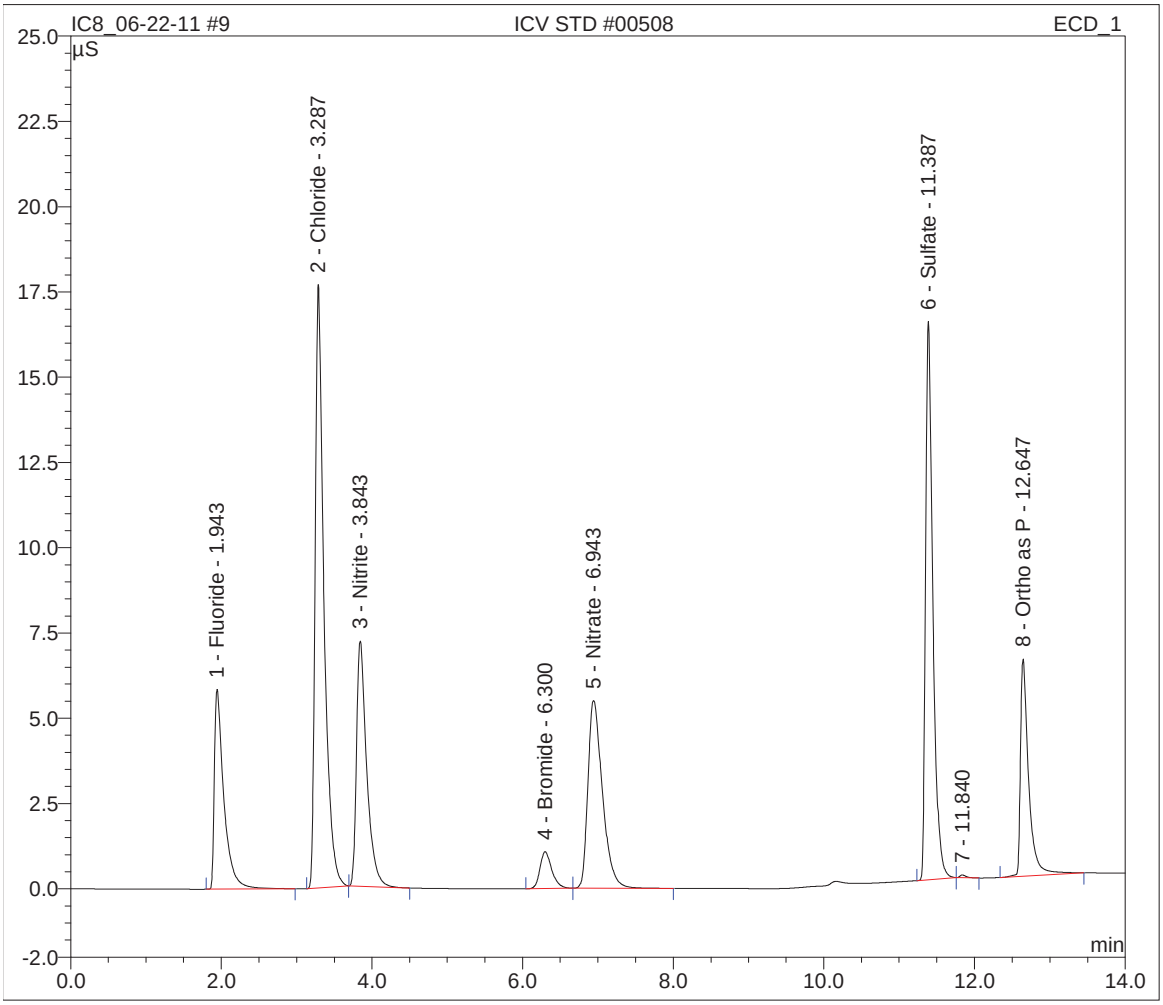
Sample Name:	**BLK**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 14:06**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.96	Fluoride	BMB	0.005	0.020	-0.0109
2	3.29	Chloride	BMB	0.002	0.017	-0.0260
3	11.44	Sulfate	BMB	0.009	0.039	-0.0237
4	12.69	Ortho as P	BMB	0.140	0.472	-0.0212
TOTAL:				0.16	0.55	-0.08



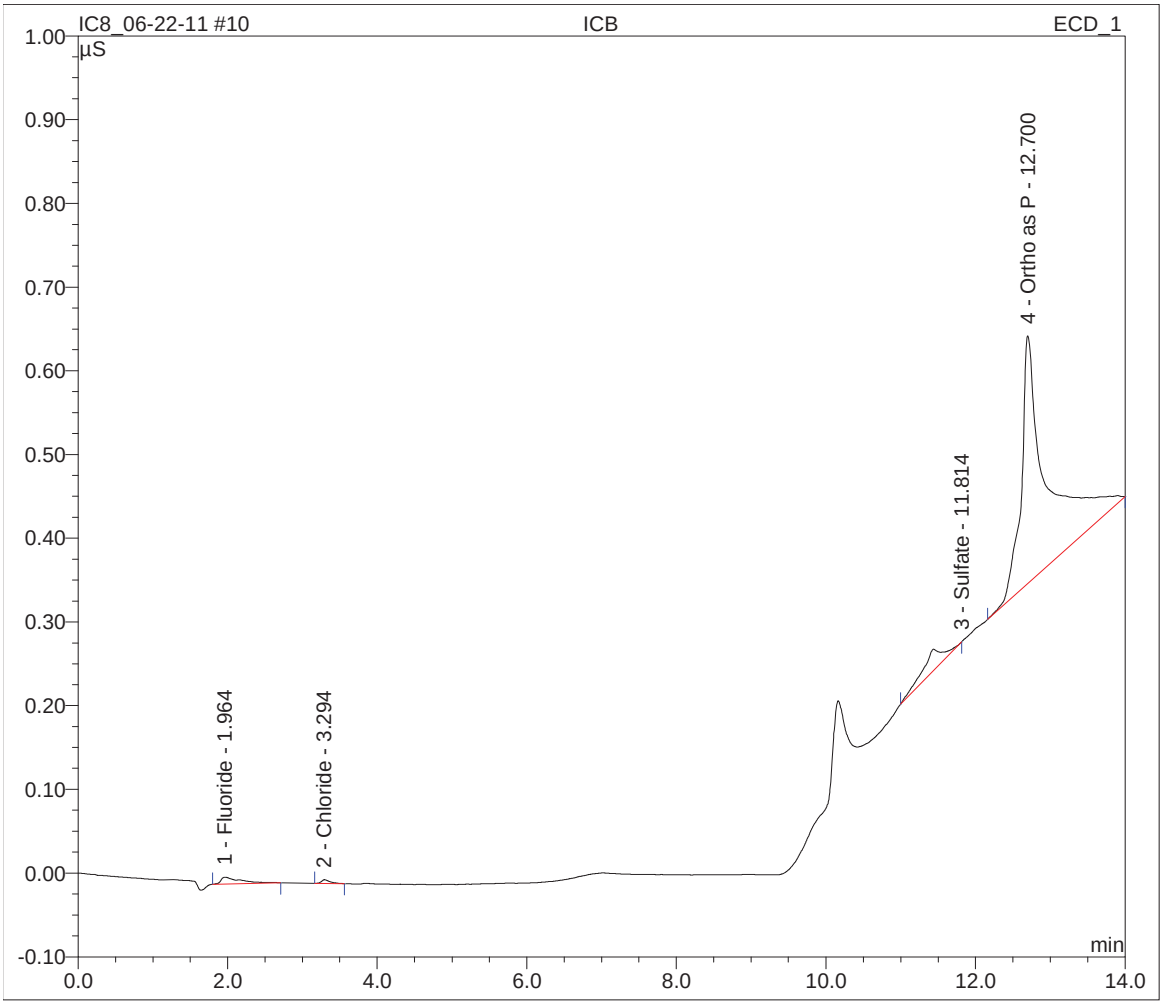
Sample Name:	**ICV STD #00508**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 14:23**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.857	5.849	2.0808
2	3.29	Chloride	BMB	2.404	17.693	9.9847
3	3.84	Nitrite	BMB	1.126	7.197	2.1034
4	6.30	Bromide	BMb	0.196	1.084	1.9745
5	6.94	Nitrate	bMB	1.228	5.495	2.0019
6	11.39	Sulfate	BMb	1.843	16.377	9.9617
8	12.65	Ortho as P	BMB	0.797	6.371	2.1405
		TOTAL:		8.45	60.07	30.25



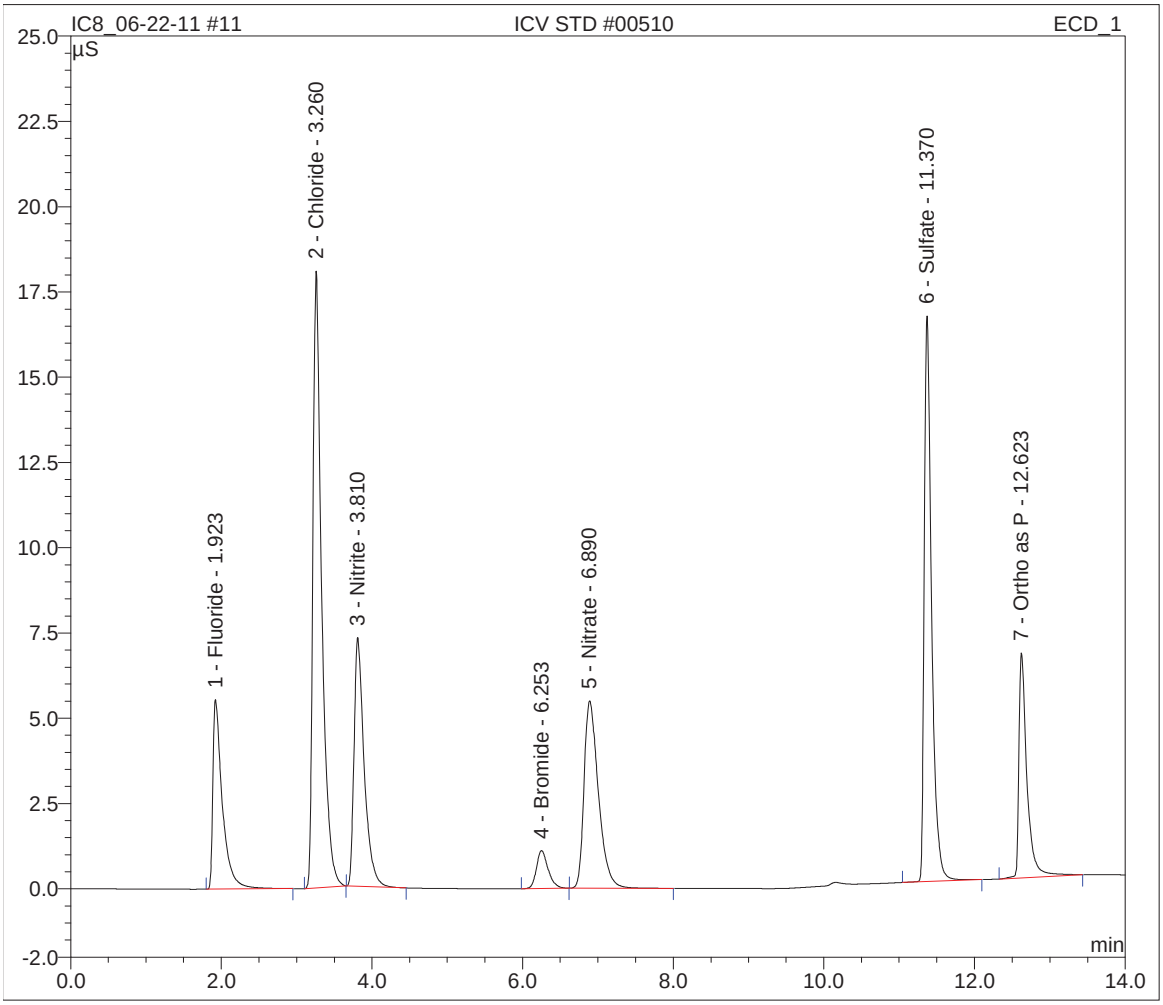
Sample Name:	**ICB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 14:40**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.96	Fluoride	BMB	0.002	0.008	-0.0181
2	3.29	Chloride	BMB	0.001	0.004	-0.0330
3	11.81	Sulfate	BMB	0.008	0.000	-0.0304
4	12.70	Ortho as P	BMB	0.118	0.296	-0.0956
TOTAL:				0.13	0.31	-0.18



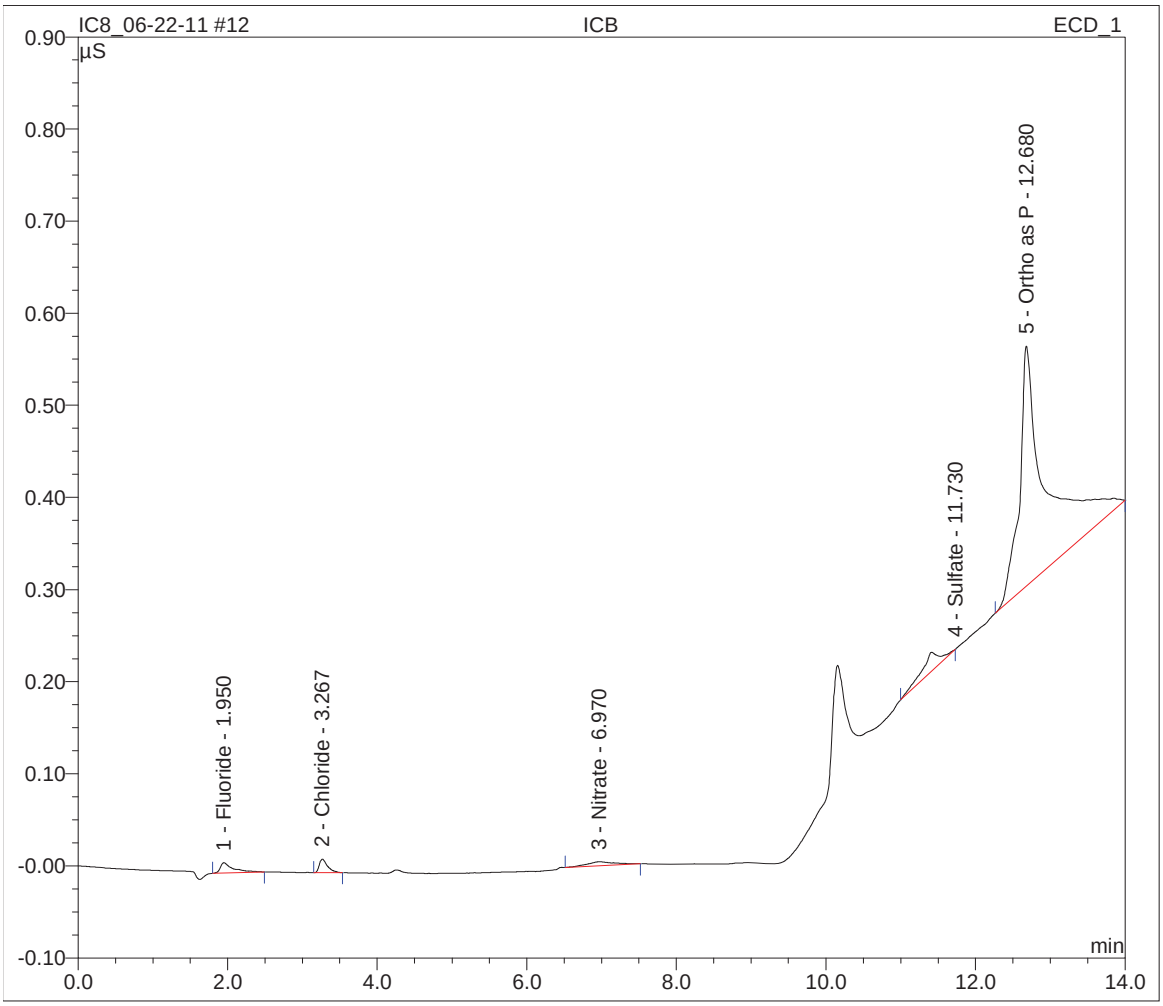
Sample Name:	**ICV STD #00510**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 09:22**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.812	5.550	1.9701
2	3.26	Chloride	BMB	2.437	18.088	10.1206
3	3.81	Nitrite	BMB	1.136	7.295	2.1219
4	6.25	Bromide	BMB	0.199	1.108	2.0037
5	6.89	Nitrate	BMB	1.215	5.493	1.9809
6	11.37	Sulfate	BMB	1.878	16.586	10.1500
7	12.62	Ortho as P	BMB	0.817	6.600	2.2060
TOTAL:				8.49	60.72	30.55



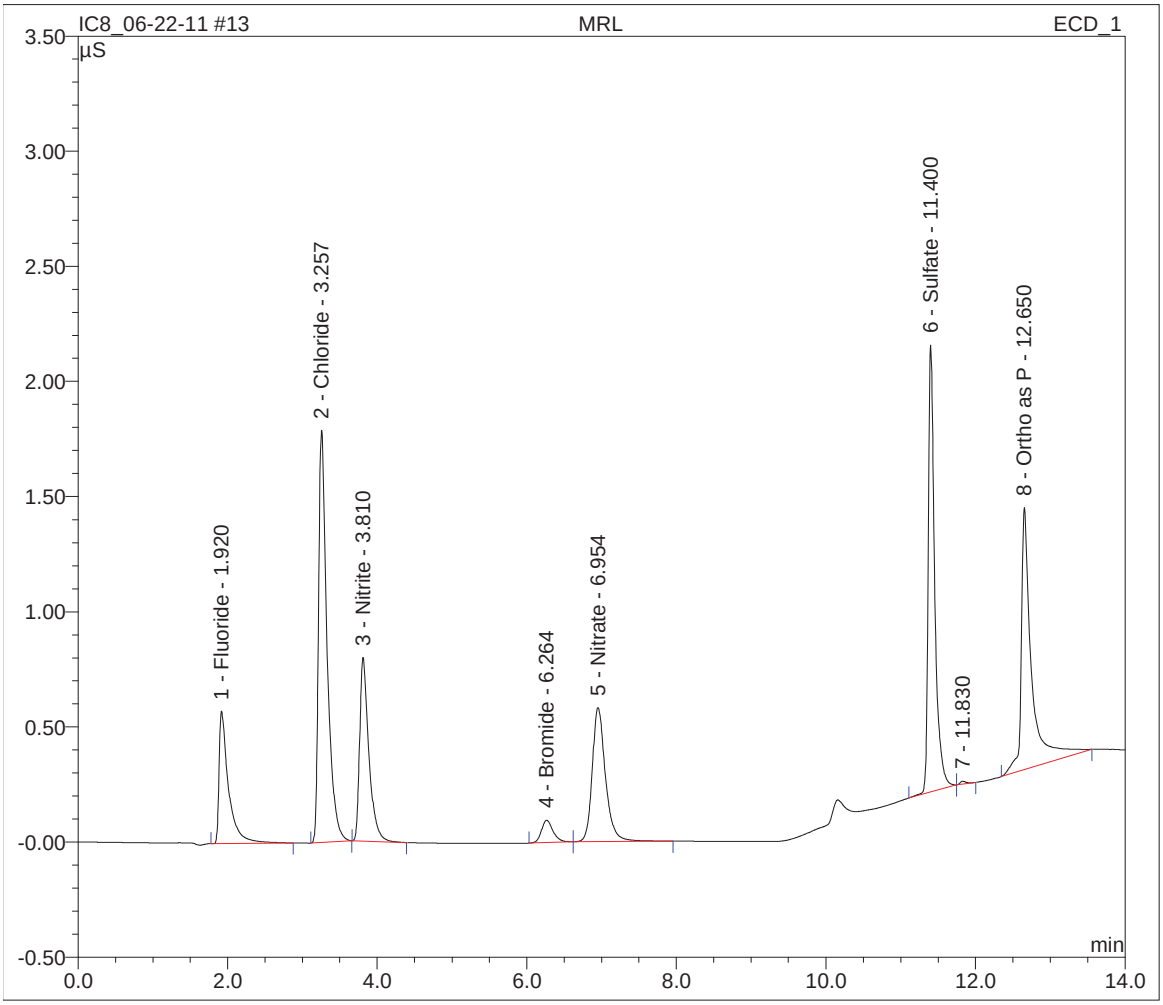
Sample Name:	**ICB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 09:59**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	0.002	0.011	-0.0186
2	3.27	Chloride	BMB	0.002	0.015	-0.0277
3	6.97	Nitrate	BMB	0.002	0.004	0.0029
4	11.73	Sulfate	BMB	0.006	0.000	-0.0428
5	12.68	Ortho as P	BMB	0.108	0.261	-0.1275
		TOTAL:		0.12	0.29	-0.21



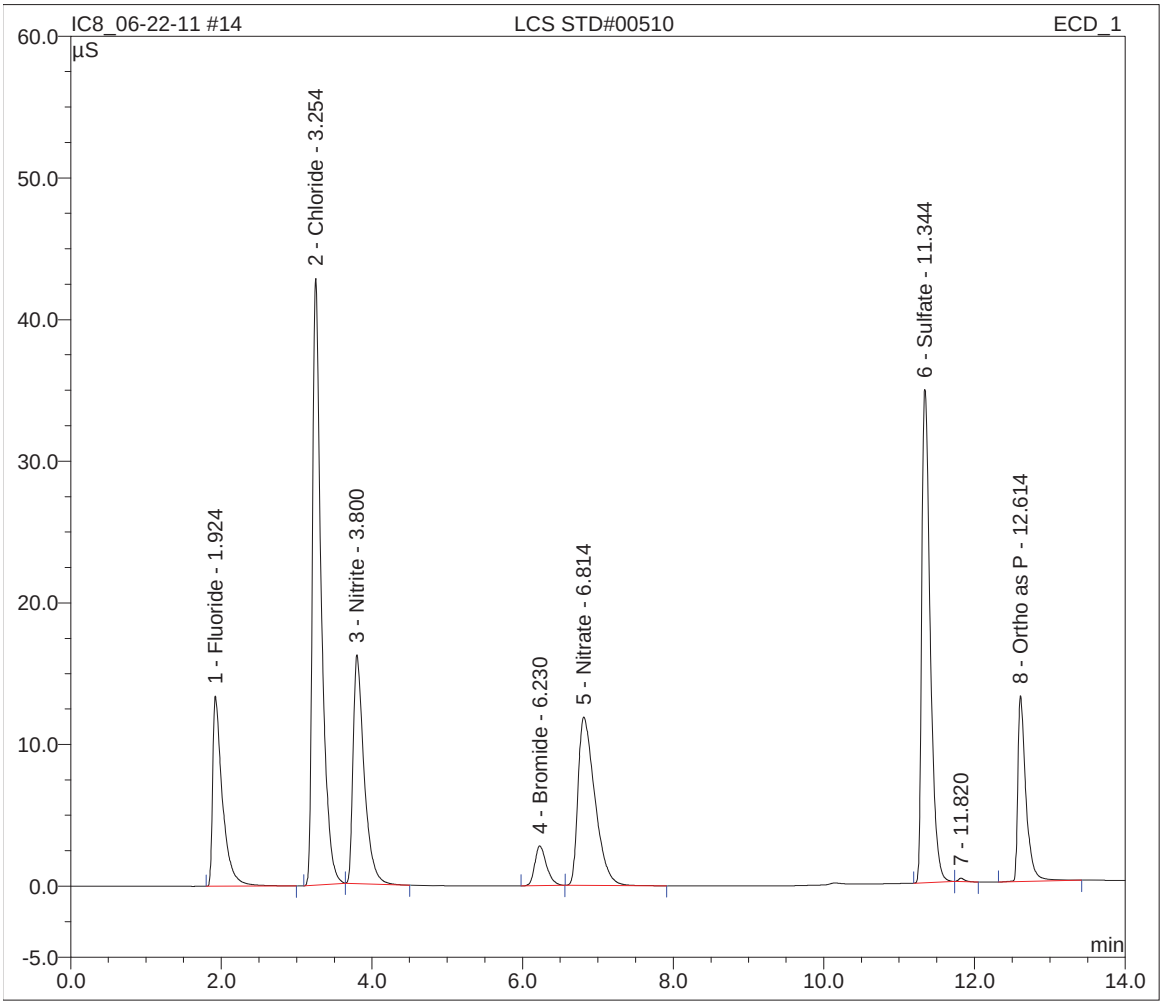
Sample Name:	**MRL**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 10:16**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.085	0.575	0.1836
2	3.26	Chloride	BMB	0.237	1.790	0.9510
3	3.81	Nitrite	BMB	0.114	0.799	0.1918
4	6.26	Bromide	BMB	0.017	0.097	0.1912
5	6.95	Nitrate	bMB	0.119	0.582	0.1939
6	11.40	Sulfate	BMB	0.195	1.942	0.9886
8	12.65	Ortho as P	BMB	0.181	1.139	0.1127
		TOTAL:		0.95	6.92	2.81



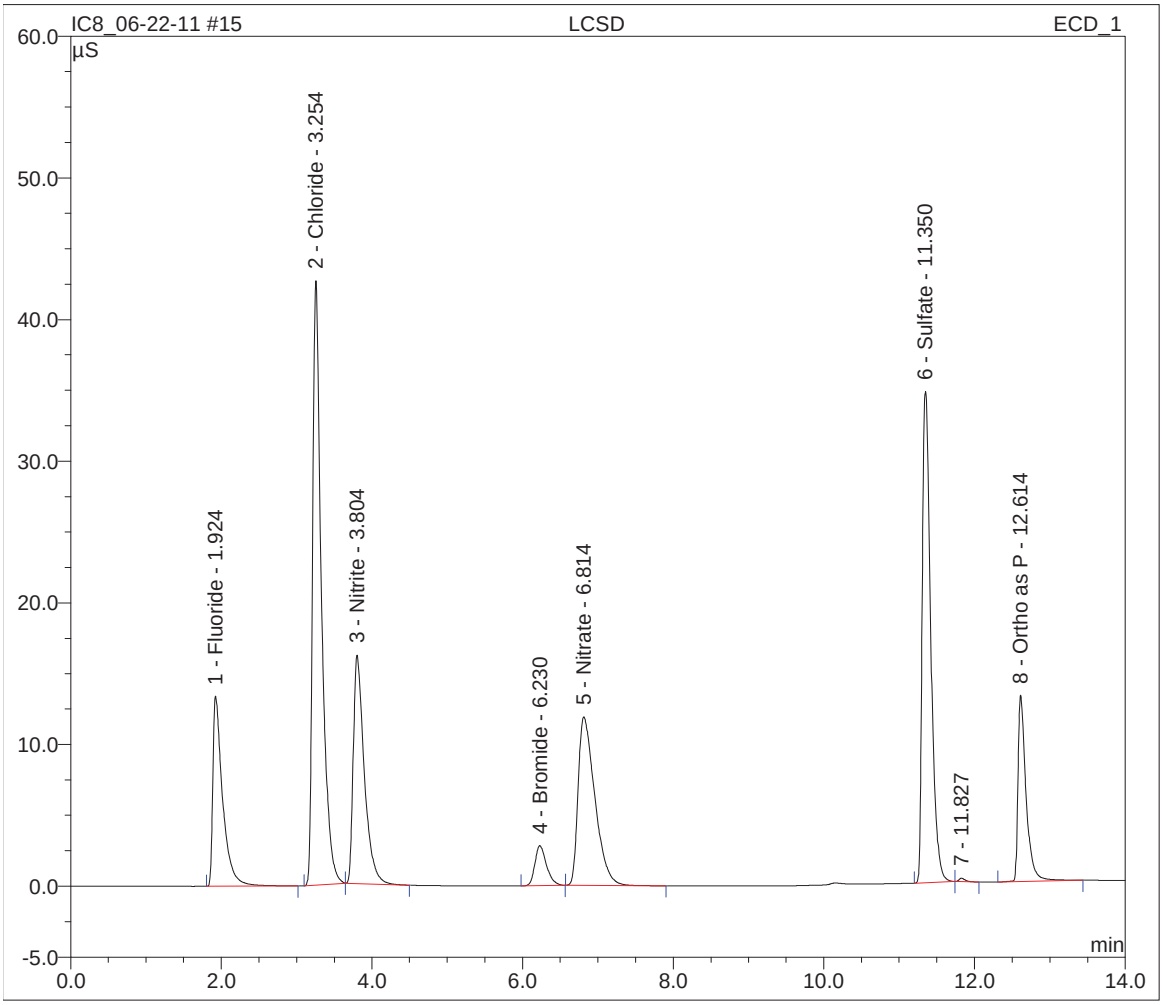
Sample Name:	**LCS STD#00510**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 10:33**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.025	13.416	4.9522
2	3.25	Chloride	BMB	5.841	42.838	24.3052
3	3.80	Nitrite	BMB	2.724	16.150	5.1192
4	6.23	Bromide	BMB	0.505	2.813	5.0612
5	6.81	Nitrate	BMB	3.073	11.878	5.0076
6	11.34	Sulfate	BMB	4.591	34.811	24.9209
8	12.61	Ortho as P	BMB	1.631	13.105	4.8845
TOTAL:				20.39	135.01	74.25



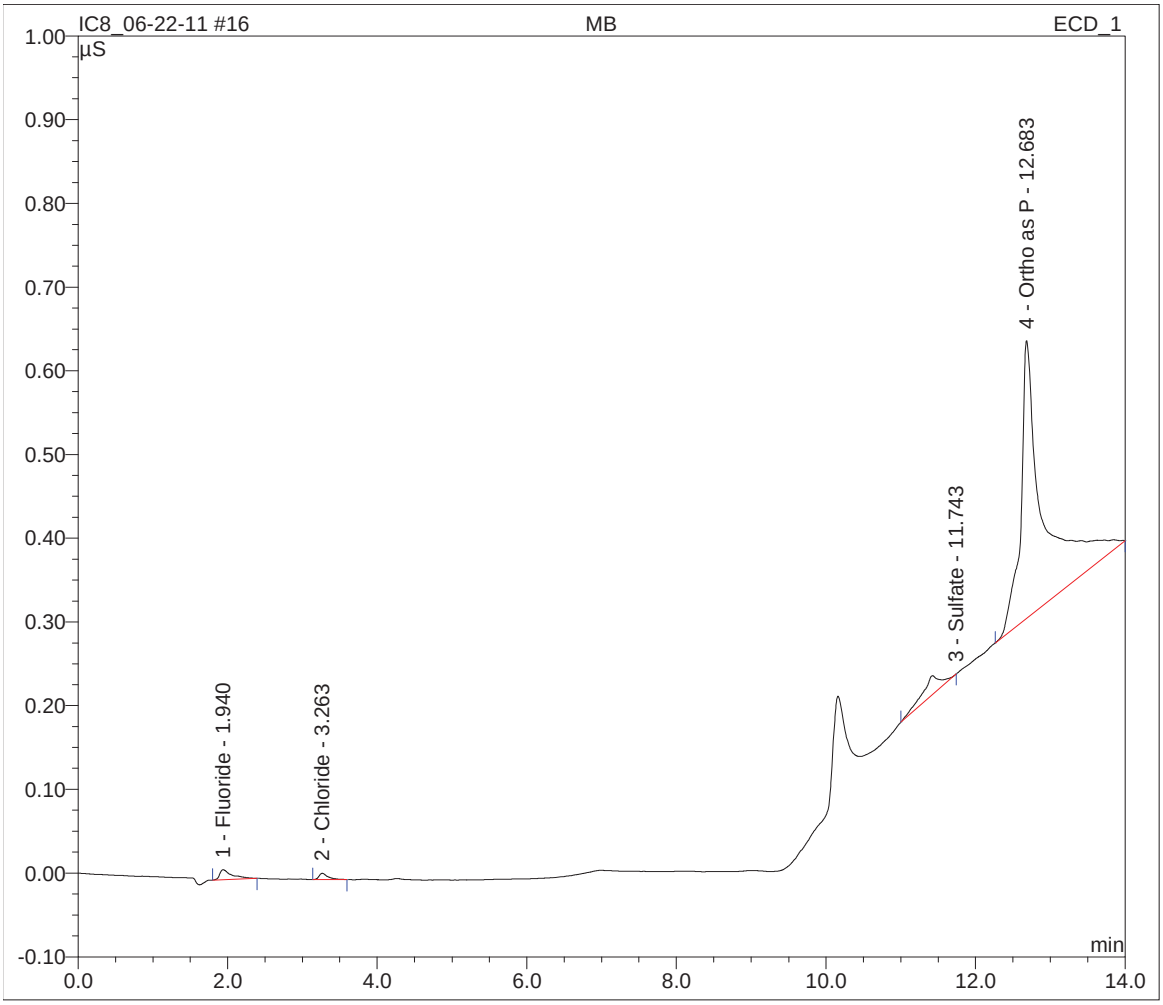
Sample Name:	**LCSD**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 10:50**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.022	13.405	4.9441
2	3.25	Chloride	BMb	5.821	42.667	24.2251
3	3.80	Nitrite	bMB	2.720	16.139	5.1126
4	6.23	Bromide	BMB	0.505	2.826	5.0555
5	6.81	Nitrate	BMB	3.063	11.893	4.9916
6	11.35	Sulfate	BMb	4.569	34.670	24.8007
8	12.61	Ortho as P	BMB	1.639	13.138	4.9108
		TOTAL:		20.34	134.74	74.04



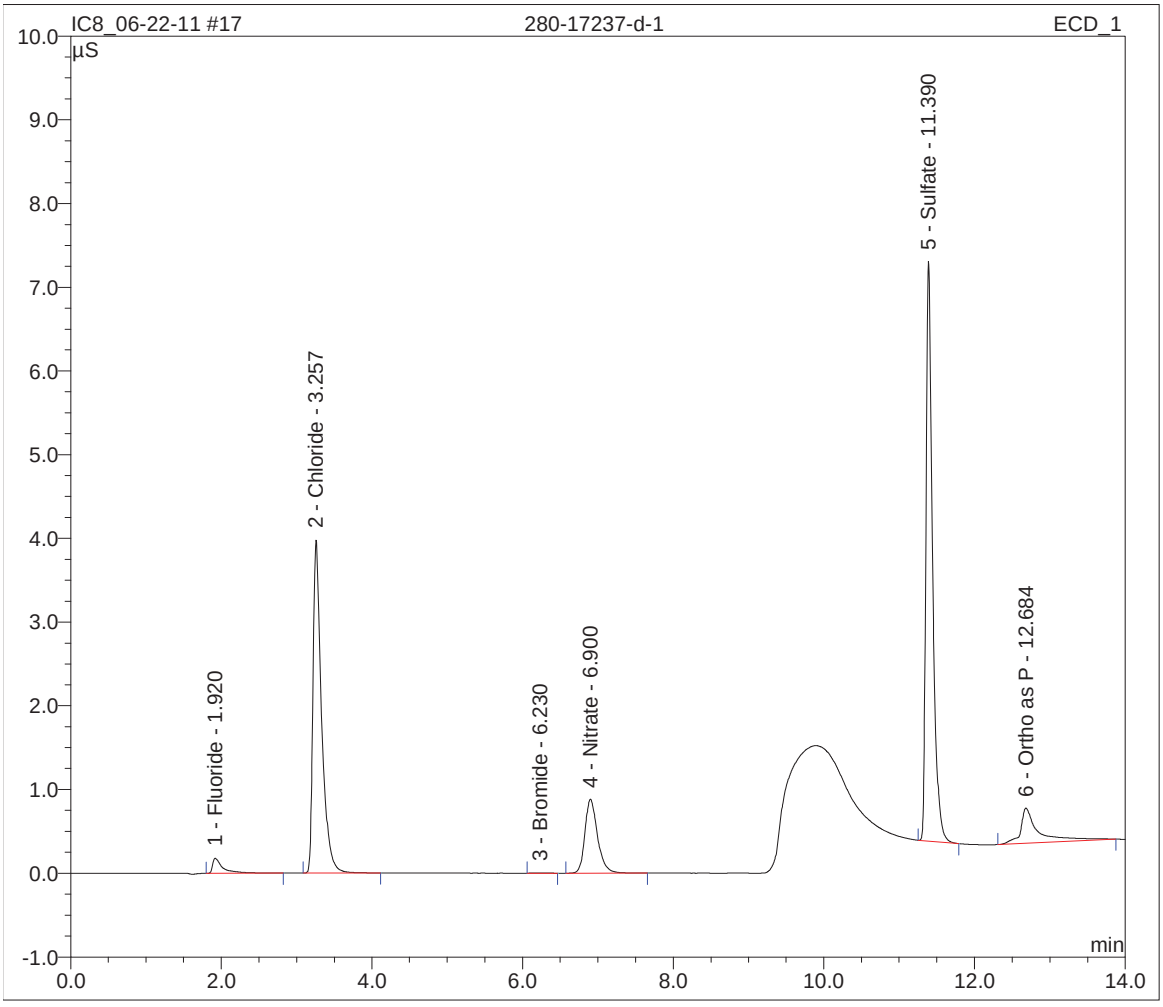
Sample Name:	**MB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 11:07**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.002	0.012	-0.0186
2	3.26	Chloride	BMB	0.001	0.007	-0.0312
3	11.74	Sulfate	BMB	0.006	0.000	-0.0392
4	12.68	Ortho as P	BMB	0.117	0.332	-0.0984
TOTAL:				0.13	0.35	-0.19



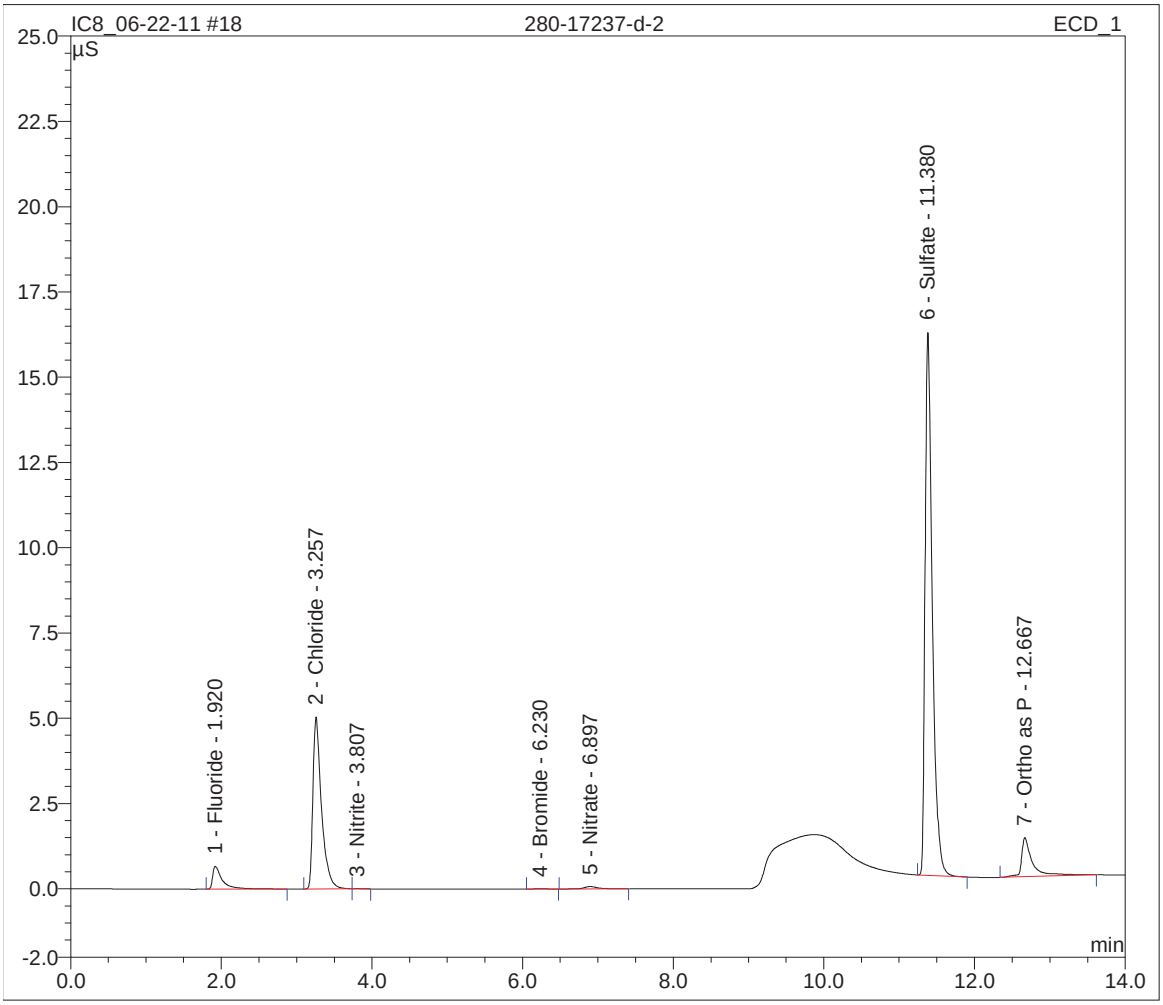
Sample Name:	**280-17237-d-1**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 11:56**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.028	0.181	0.0458
2	3.26	Chloride	BMB	0.525	3.976	2.1526
3	6.23	Bromide	BMB	0.001	0.003	0.0238
4	6.90	Nitrate	BMB	0.171	0.883	0.2789
5	11.39	Sulfate	BMB	0.701	6.925	3.7417
6	12.68	Ortho as P	BMB	0.115	0.419	-0.1032
		TOTAL:		1.54	12.39	6.14



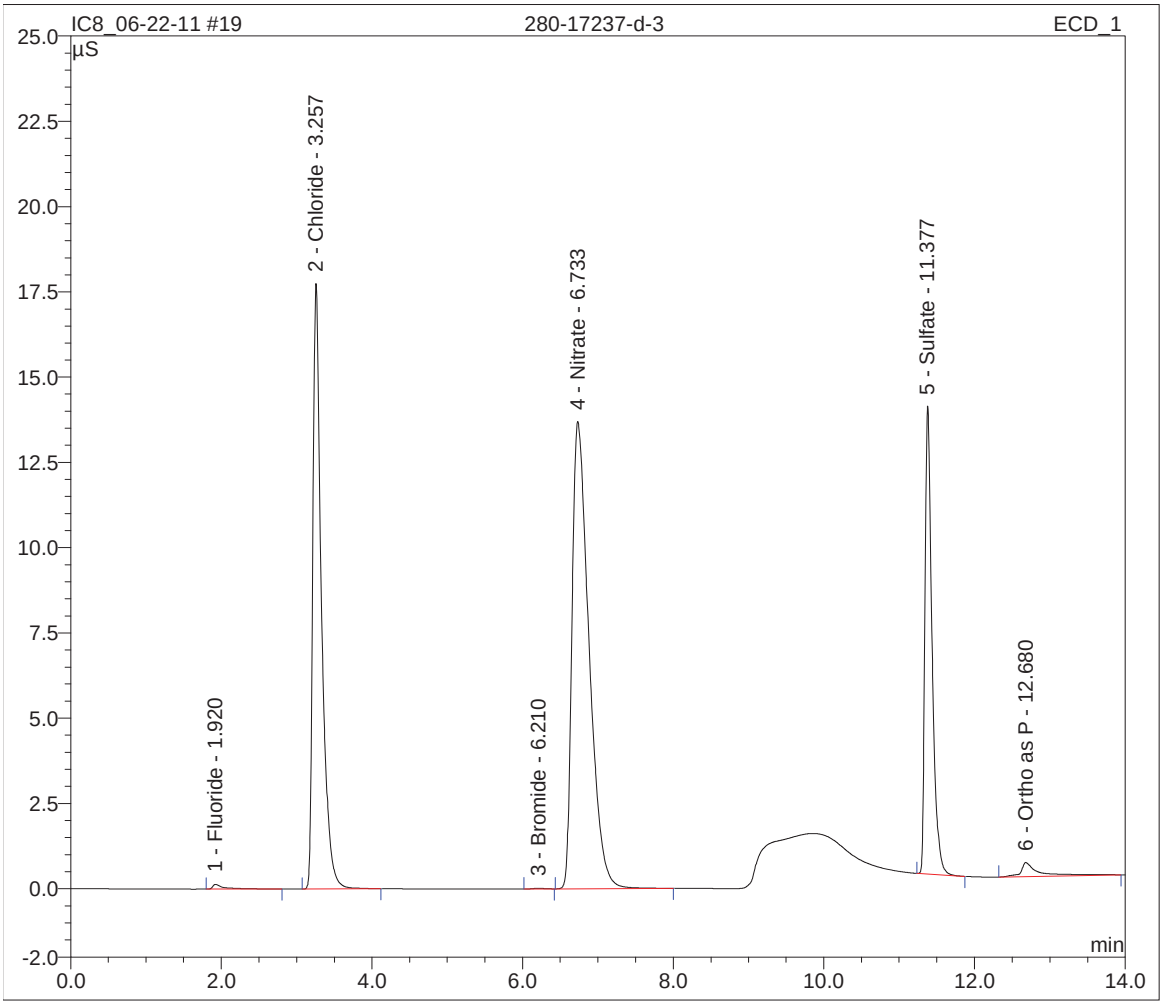
Sample Name:	**280-17237-d-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 12:13**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.098	0.667	0.2164
2	3.26	Chloride	BMb	0.662	5.039	2.7248
3	3.81	Nitrite	bMB	0.001	0.006	-0.0220
4	6.23	Bromide	BMB	0.001	0.008	0.0306
5	6.90	Nitrate	BMB	0.014	0.069	0.0227
6	11.38	Sulfate	BMB	1.770	15.925	9.5618
7	12.67	Ortho as P	BMB	0.192	1.147	0.1479
		TOTAL:		2.74	22.86	12.68



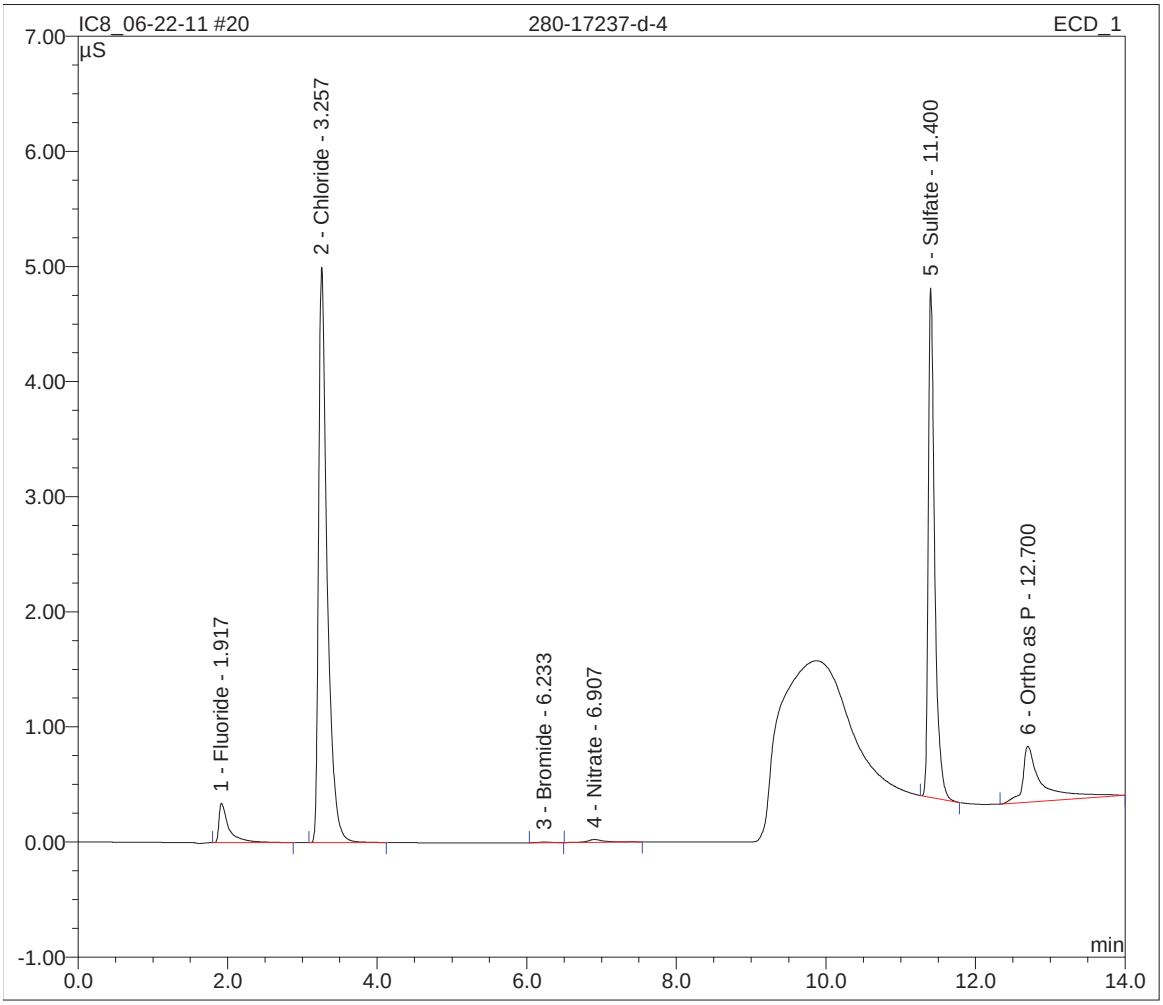
Sample Name:	**280-17237-d-3**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 12:30**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.023	0.133	0.0315
2	3.26	Chloride	BMB	2.373	17.751	9.8520
3	6.21	Bromide	BMB	0.003	0.019	0.0473
4	6.73	Nitrate	BMB	3.575	13.698	5.8270
5	11.38	Sulfate	BMB	1.505	13.718	8.1196
6	12.68	Ortho as P	BMB	0.114	0.411	-0.1074
		TOTAL:		7.59	45.73	23.77



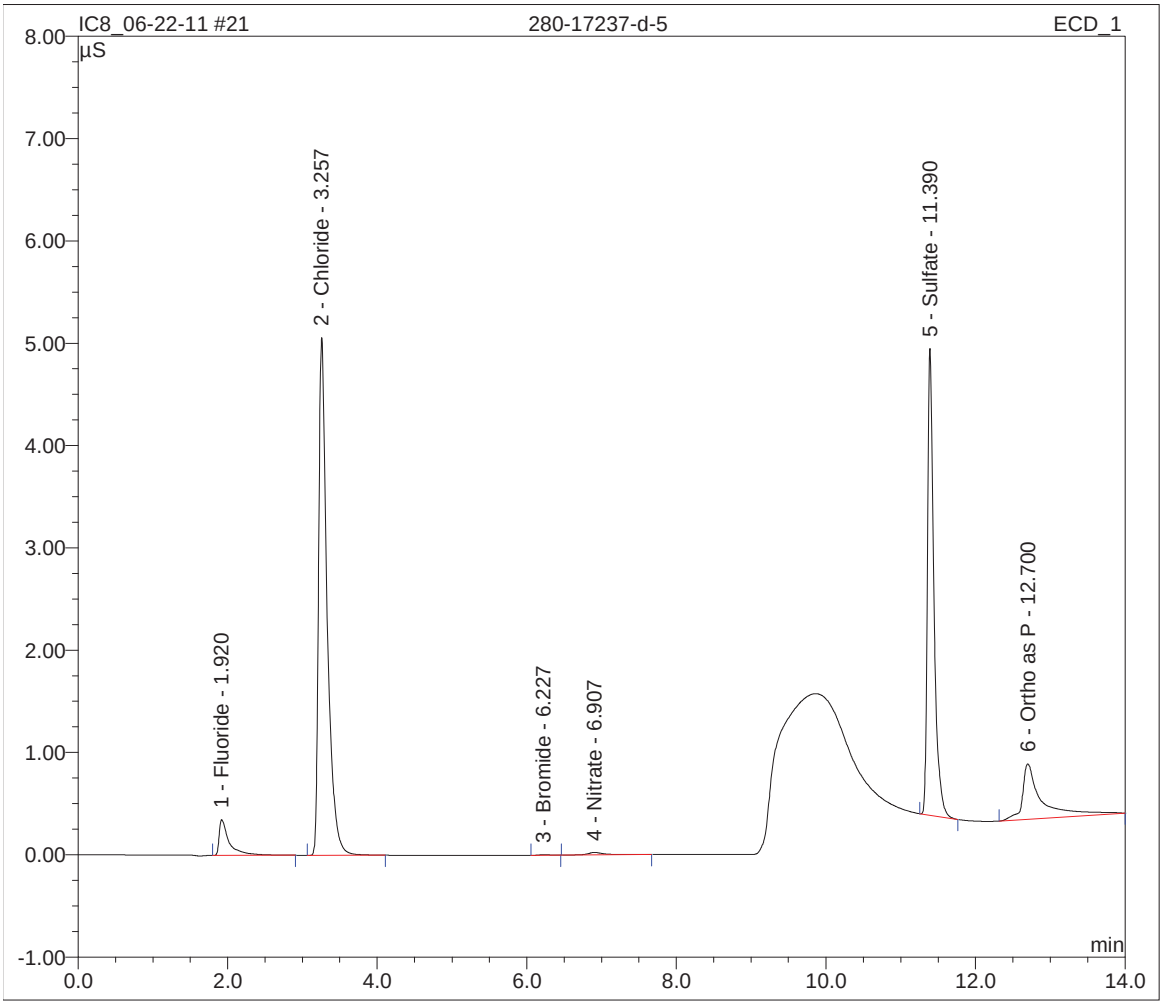
Sample Name:	**280-17237-d-4**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 12:47**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.053	0.342	0.1049
2	3.26	Chloride	BMB	0.664	5.000	2.7332
3	6.23	Bromide	BMB	0.001	0.006	0.0264
4	6.91	Nitrate	BMB	0.006	0.024	0.0097
5	11.40	Sulfate	BMB	0.440	4.426	2.3221
6	12.70	Ortho as P	BMB	0.146	0.485	-0.0028
		TOTAL:		1.31	10.28	5.19



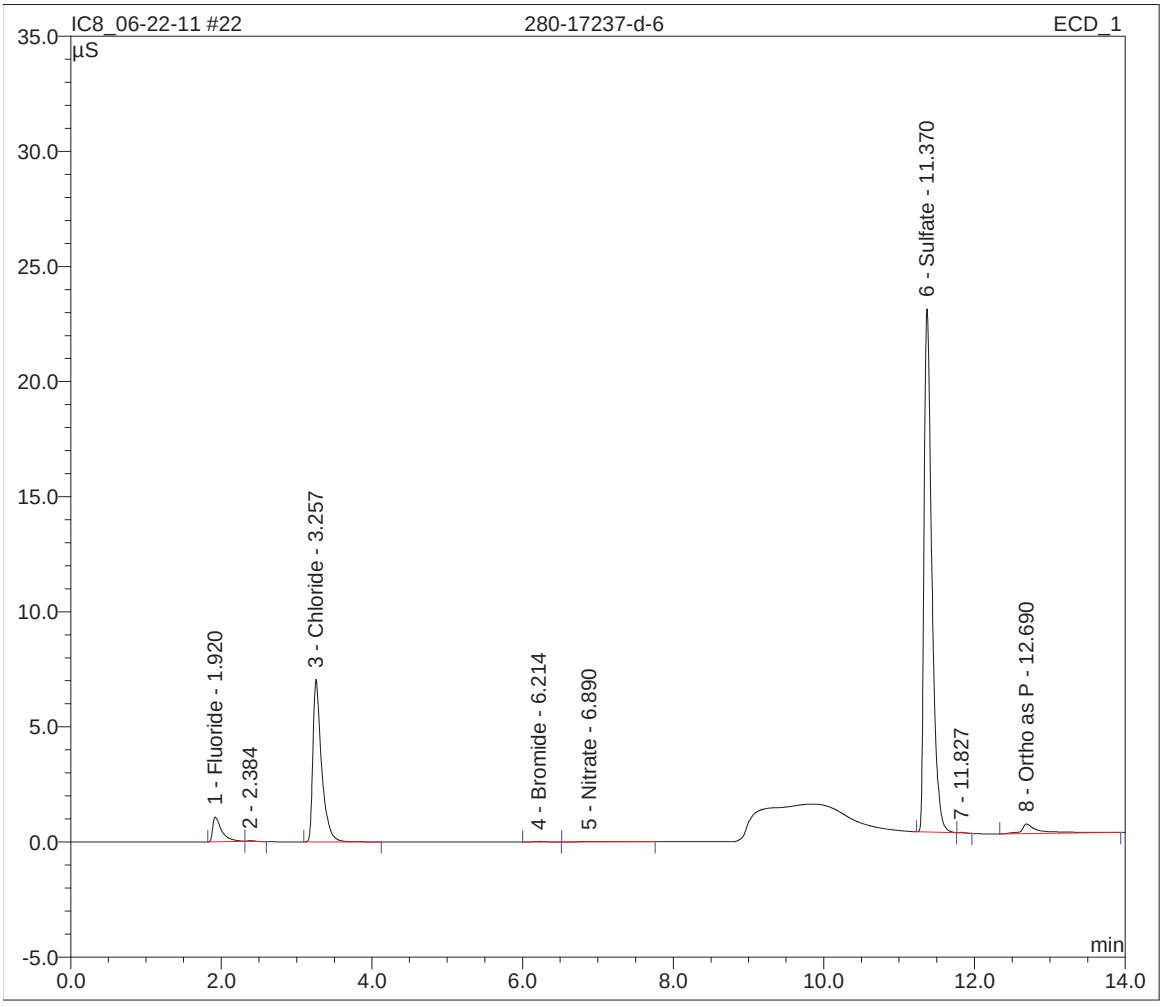
Sample Name:	**280-17237-d-5**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 13:04**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.054	0.348	0.1089
2	3.26	Chloride	BMB	0.668	5.060	2.7465
3	6.23	Bromide	BMB	0.001	0.005	0.0265
4	6.91	Nitrate	BMB	0.007	0.024	0.0105
5	11.39	Sulfate	BMB	0.453	4.560	2.3947
6	12.70	Ortho as P	BMB	0.161	0.541	0.0479
		TOTAL:		1.34	10.54	5.34



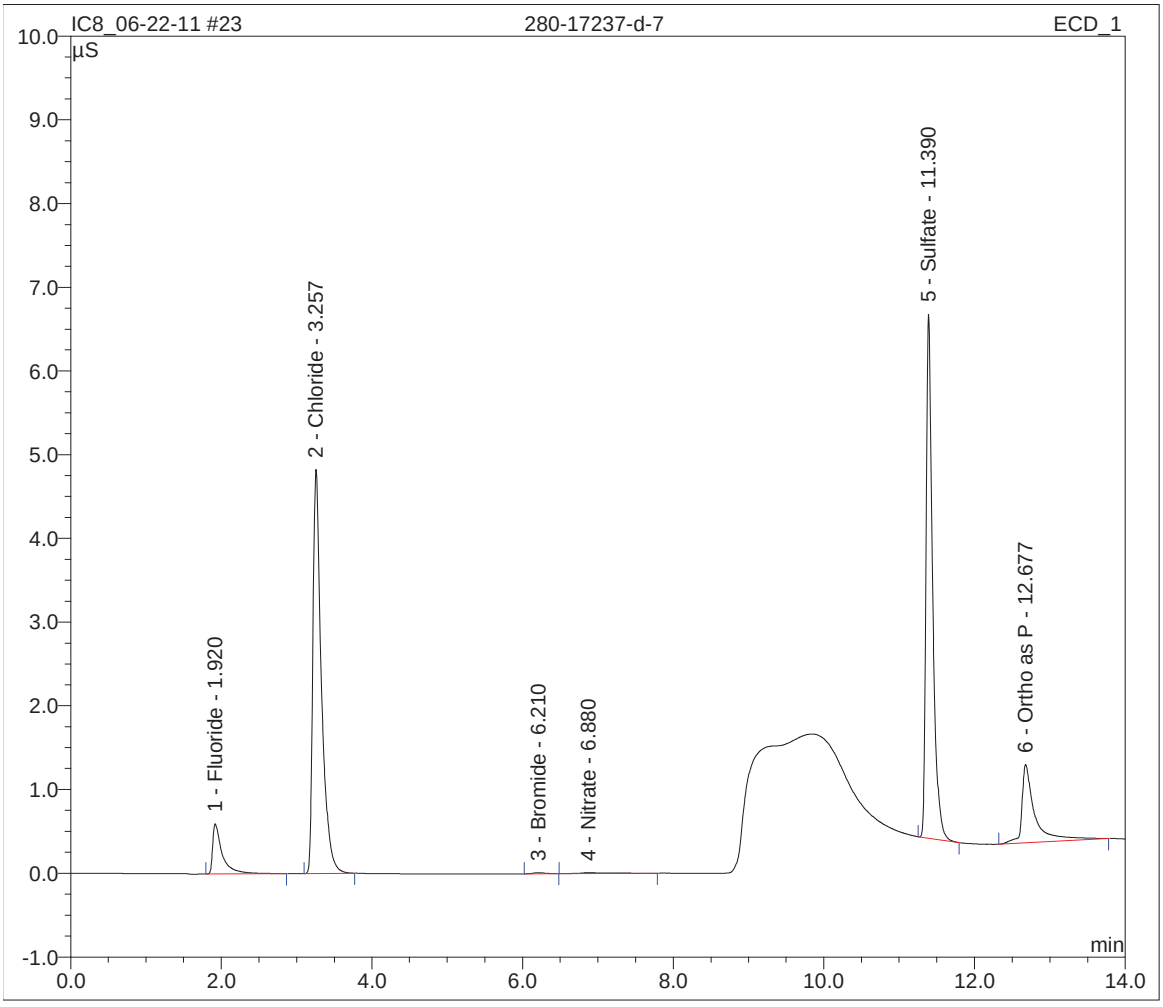
Sample Name:	**280-17237-d-6**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 13:20**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMb	0.147	1.069	0.3367
3	3.26	Chloride	BMB	0.938	7.048	3.8725
4	6.21	Bromide	BMB	0.003	0.020	0.0505
5	6.89	Nitrate	BMB	0.004	0.009	0.0058
6	11.37	Sulfate	BMB	2.714	22.741	14.6999
8	12.69	Ortho as P	BMB	0.115	0.416	-0.1040
		TOTAL:		3.92	31.30	18.86



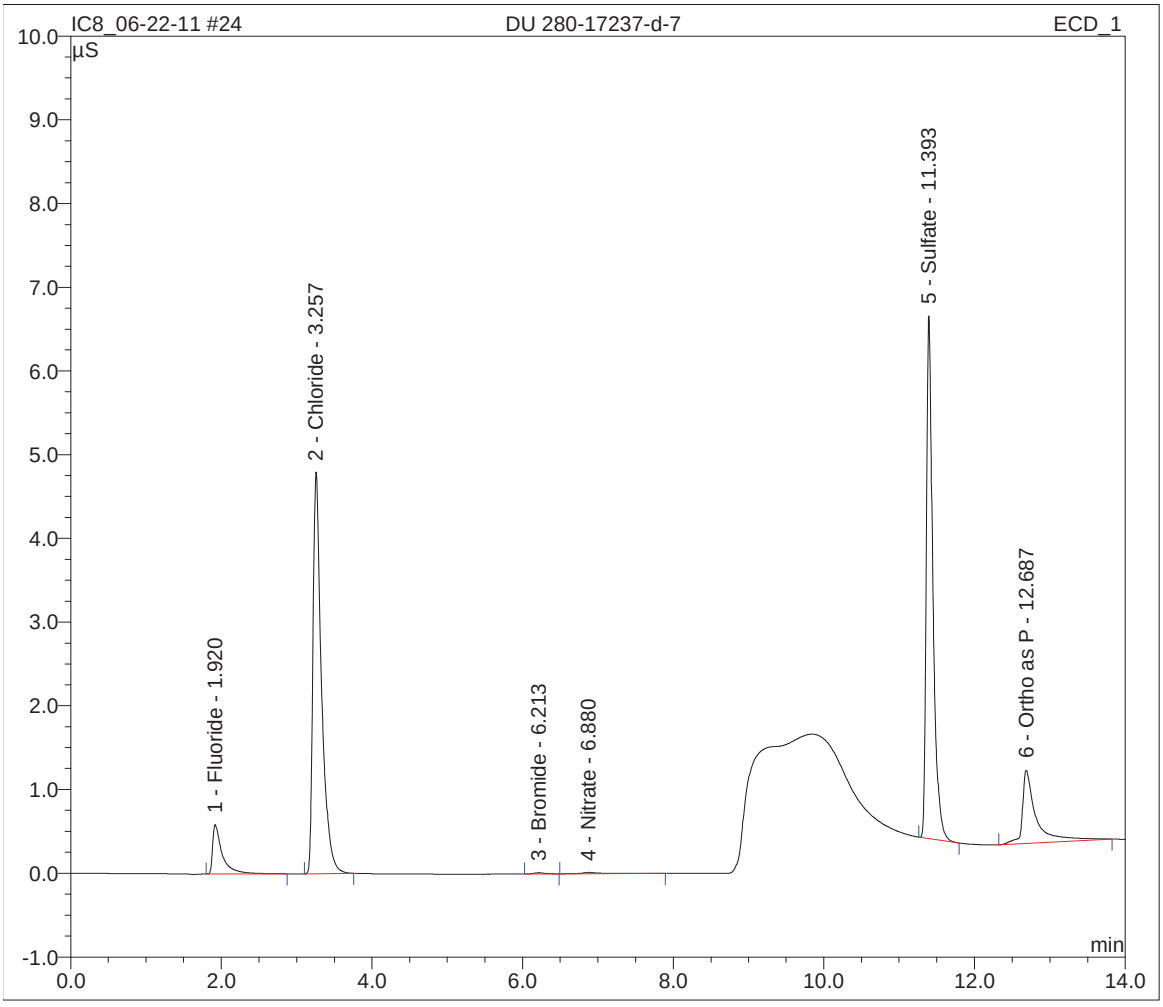
Sample Name:	**280-17237-d-7**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 13:37**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.087	0.597	0.1905
2	3.26	Chloride	BMB	0.636	4.828	2.6164
3	6.21	Bromide	BMB	0.002	0.014	0.0404
4	6.88	Nitrate	BMB	0.004	0.010	0.0063
5	11.39	Sulfate	BMB	0.633	6.259	3.3706
6	12.68	Ortho as P	BMB	0.186	0.936	0.1305
		TOTAL:		1.55	12.64	6.35



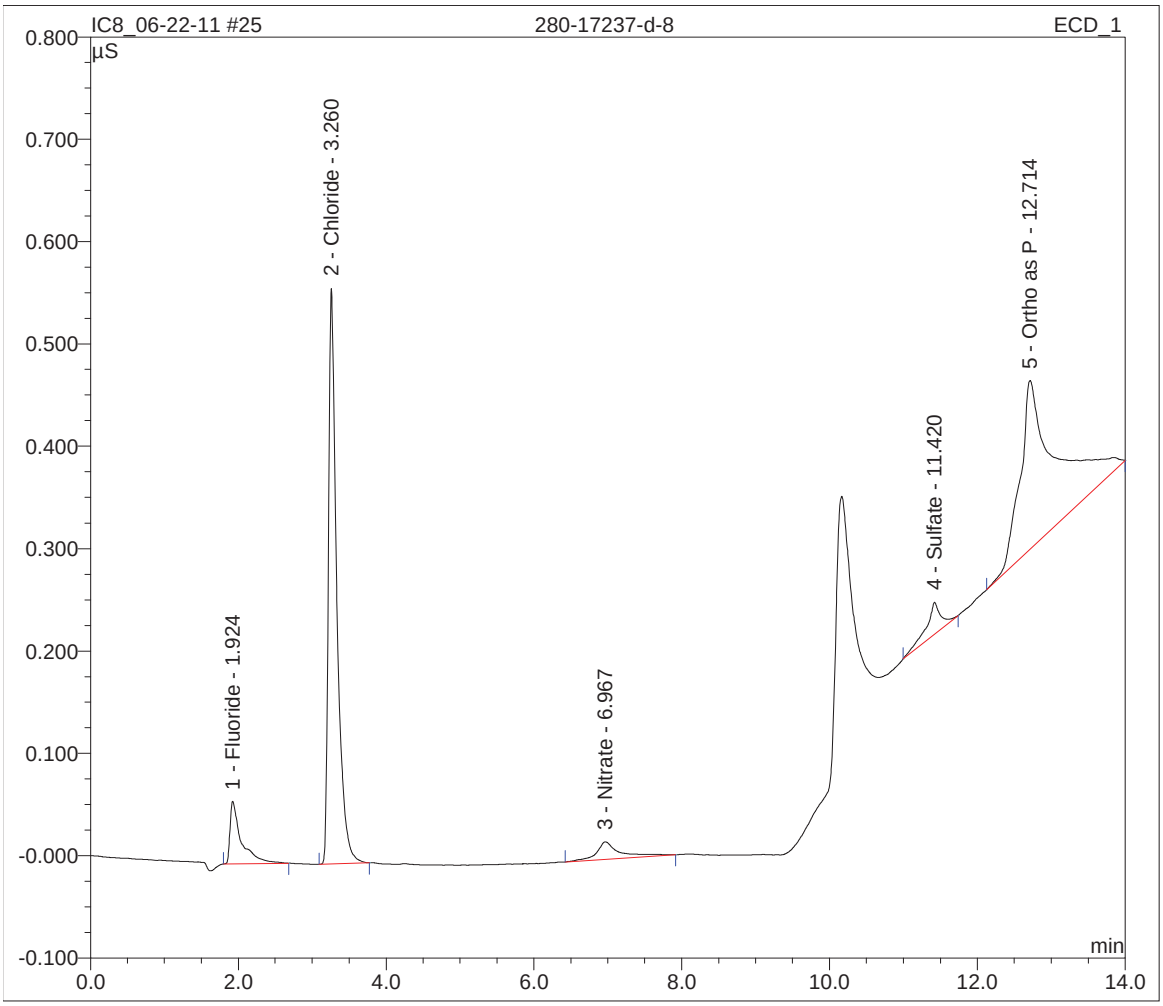
Sample Name:	**DU 280-17237-d-7**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 13:54**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.087	0.590	0.1897
2	3.26	Chloride	BMB	0.635	4.798	2.6114
3	6.21	Bromide	BMB	0.002	0.014	0.0416
4	6.88	Nitrate	BMB	0.005	0.015	0.0079
5	11.39	Sulfate	BMB	0.634	6.248	3.3781
6	12.69	Ortho as P	BMB	0.184	0.875	0.1223
		TOTAL:		1.55	12.54	6.35



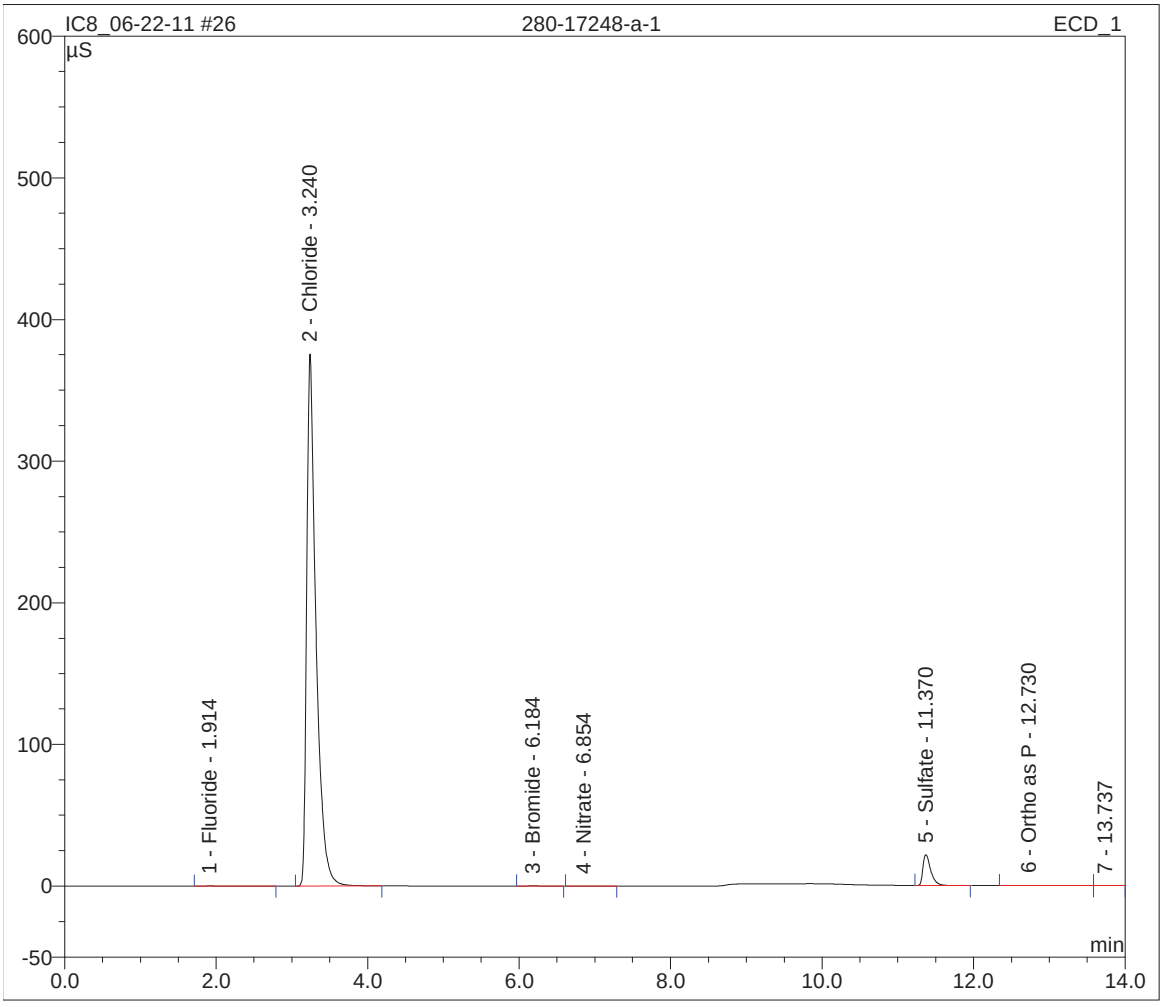
Sample Name:	**280-17237-d-8**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 14:11**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.011	0.061	0.0022
2	3.26	Chloride	BMB	0.074	0.563	0.2733
3	6.97	Nitrate	BMB	0.006	0.017	0.0100
4	11.42	Sulfate	BMB	0.007	0.031	-0.0352
5	12.71	Ortho as P	BMB	0.092	0.165	-0.1818
		TOTAL:		0.19	0.84	0.07



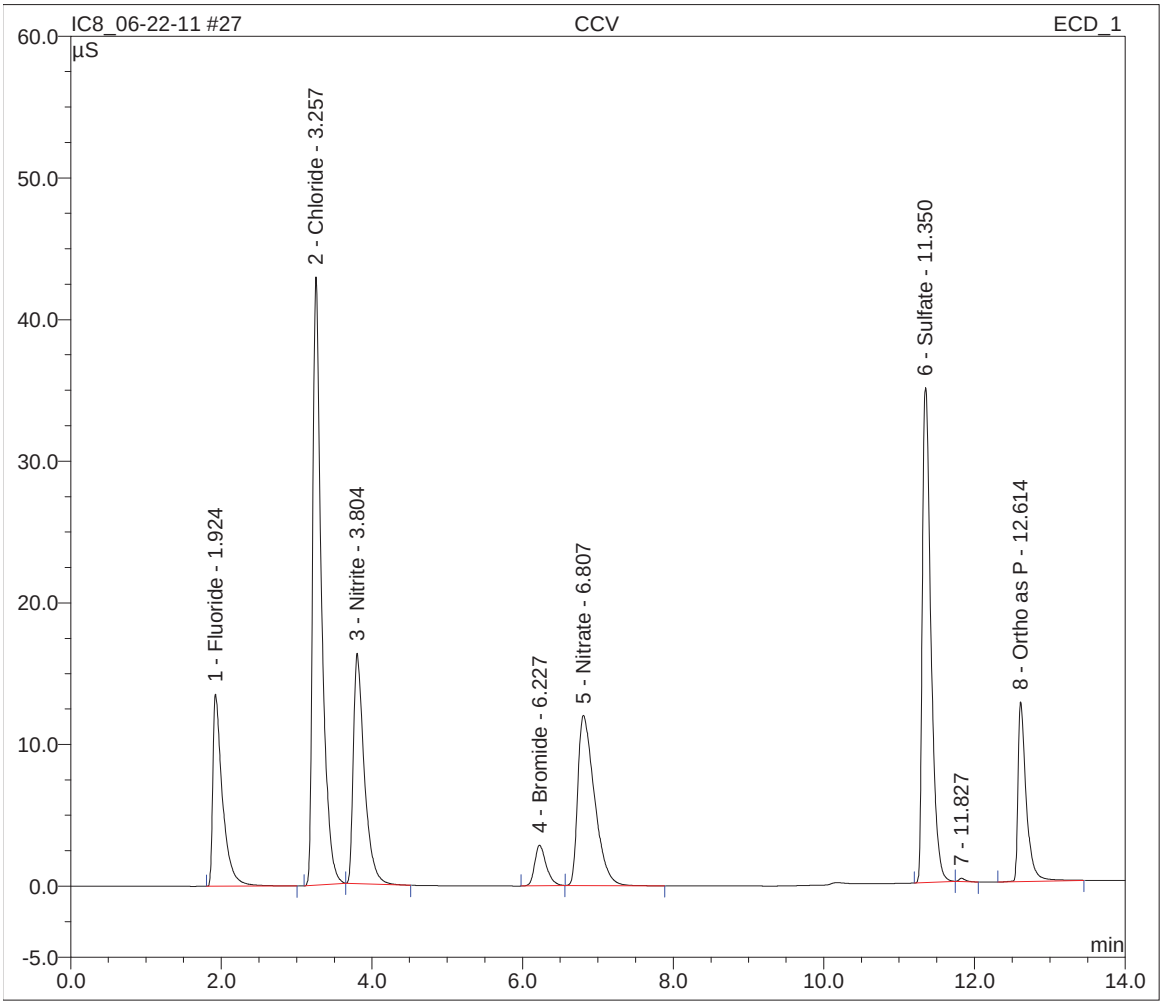
Sample Name:	**280-17248-a-1**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 14:28**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.91	Fluoride	BMB	0.026	0.147	0.0408
2	3.24	Chloride	BMB	53.559	375.455	223.1737
3	6.18	Bromide	BMB	0.022	0.126	0.2355
4	6.85	Nitrate	BMB	0.002	0.007	0.0026
5	11.37	Sulfate	BMB	2.592	21.616	14.0402
6	12.73	Ortho as P	BMb	0.046	0.087	-0.3315
		TOTAL:		56.25	397.44	237.16



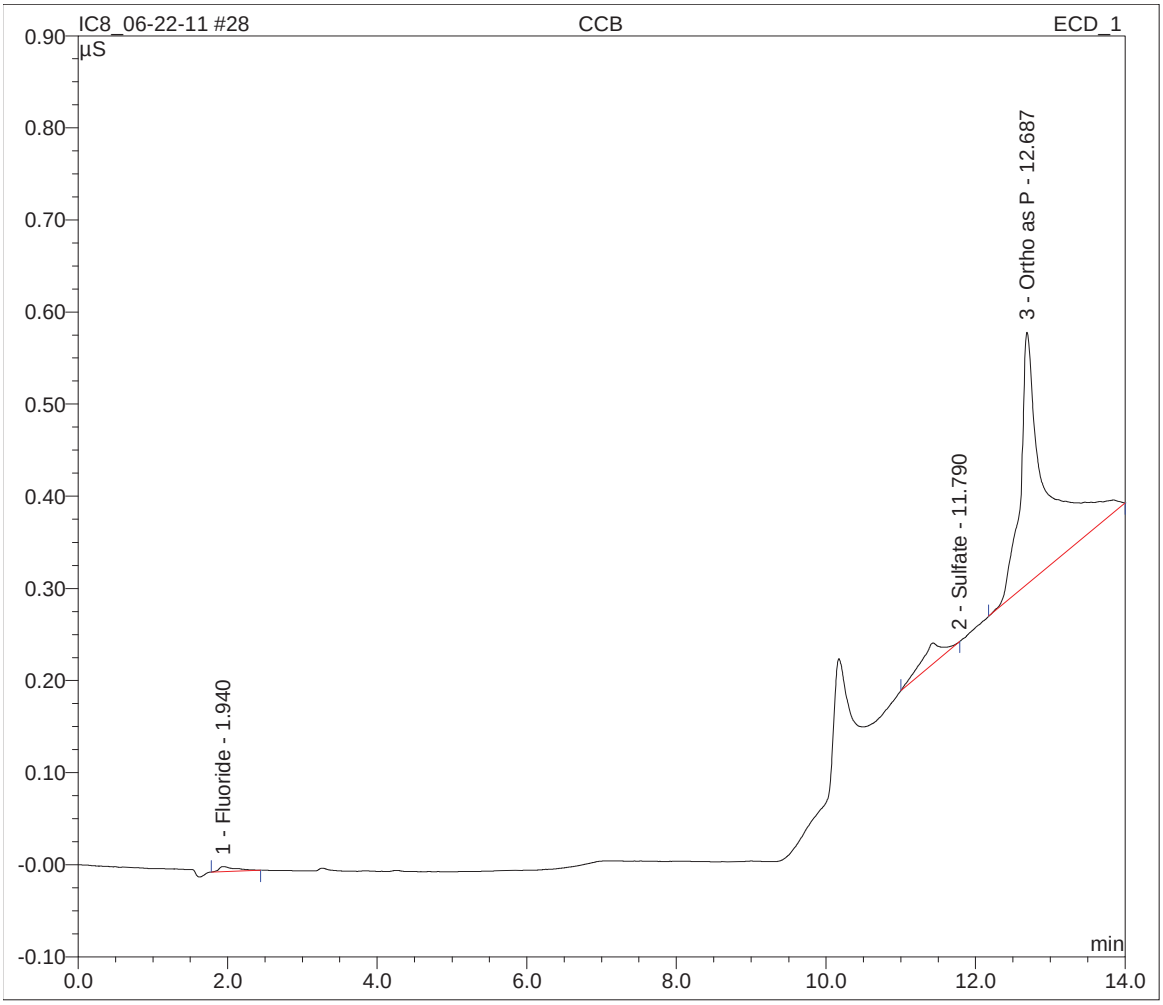
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 14:44**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.021	13.551	4.9428
2	3.26	Chloride	BMb	5.837	42.952	24.2908
3	3.80	Nitrite	bMB	2.730	16.271	5.1303
4	6.23	Bromide	BMB	0.506	2.870	5.0692
5	6.81	Nitrate	BMB	3.070	12.000	5.0038
6	11.35	Sulfate	BMb	4.643	34.938	25.2026
8	12.61	Ortho as P	BMB	1.606	12.669	4.8009
		TOTAL:		20.41	135.25	74.44



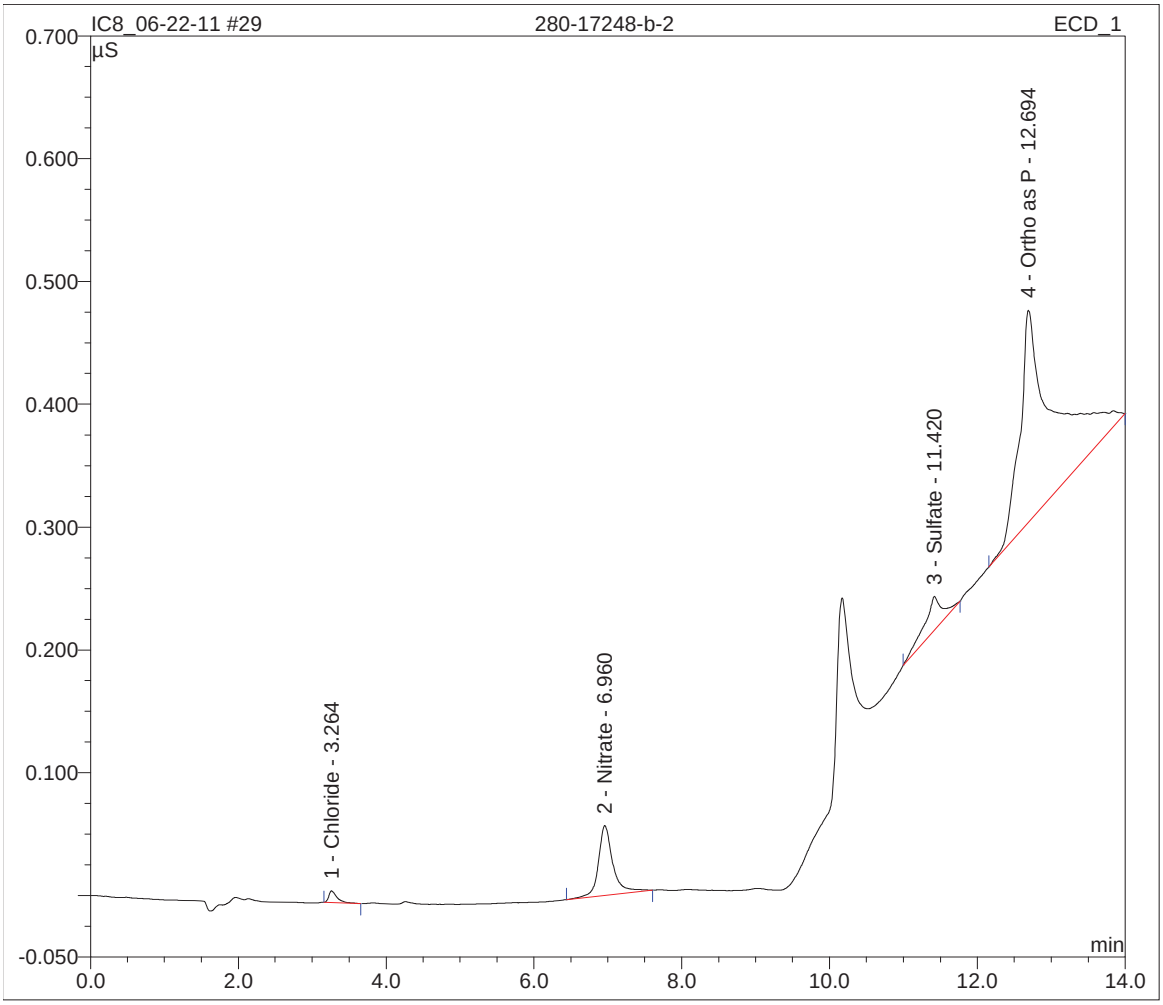
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 15:01**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.001	0.005	-0.0207
2	11.79	Sulfate	BMB	0.007	0.000	-0.0326
3	12.69	Ortho as P	BMB	0.108	0.274	-0.1260
		TOTAL:		0.12	0.28	-0.18



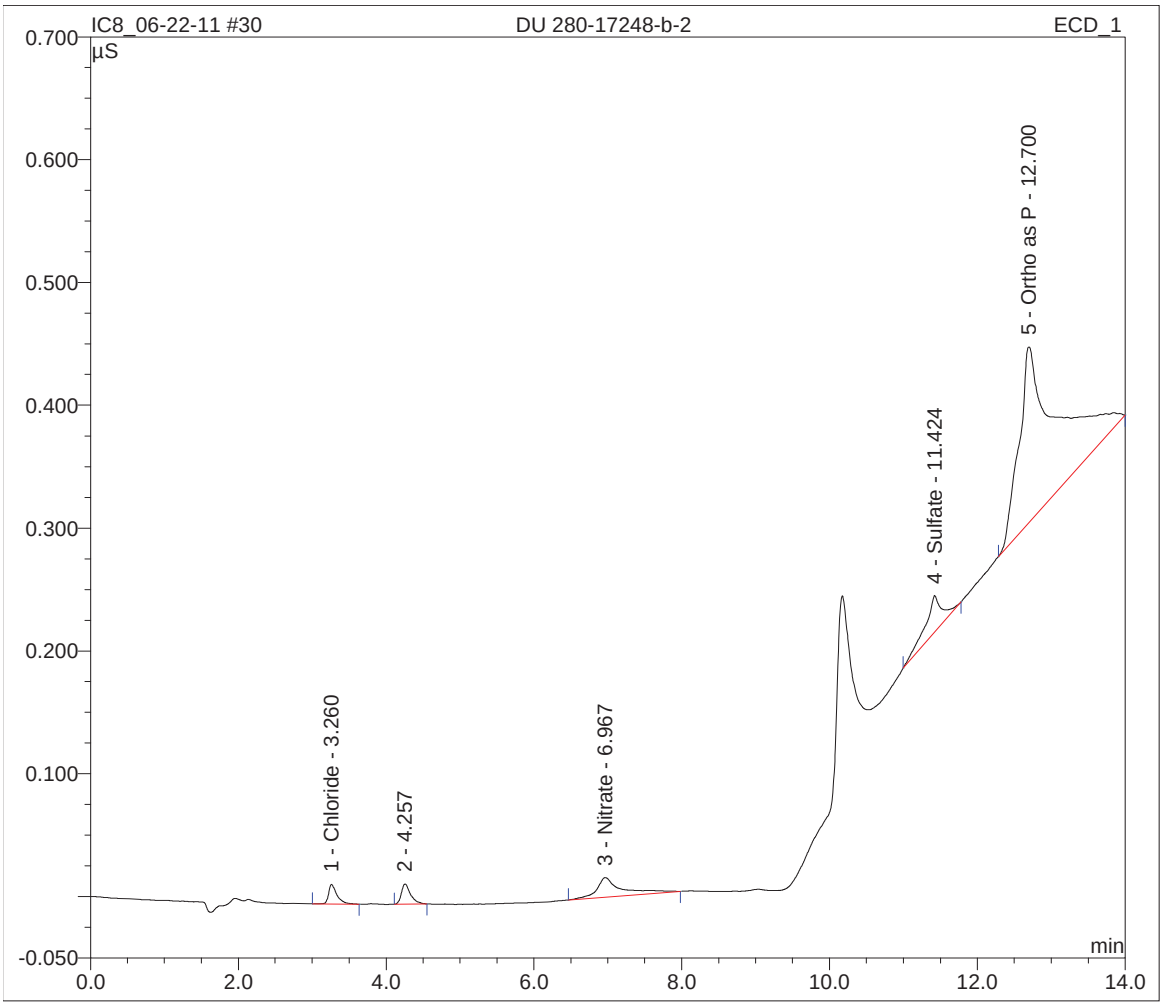
Sample Name:	**280-17248-b-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 15:18**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.26	Chloride	BMB	0.001	0.010	-0.0303
2	6.96	Nitrate	BMB	0.013	0.057	0.0209
3	11.42	Sulfate	BMB	0.007	0.027	-0.0323
4	12.69	Ortho as P	BMB	0.091	0.173	-0.1840
		TOTAL:		0.11	0.27	-0.23



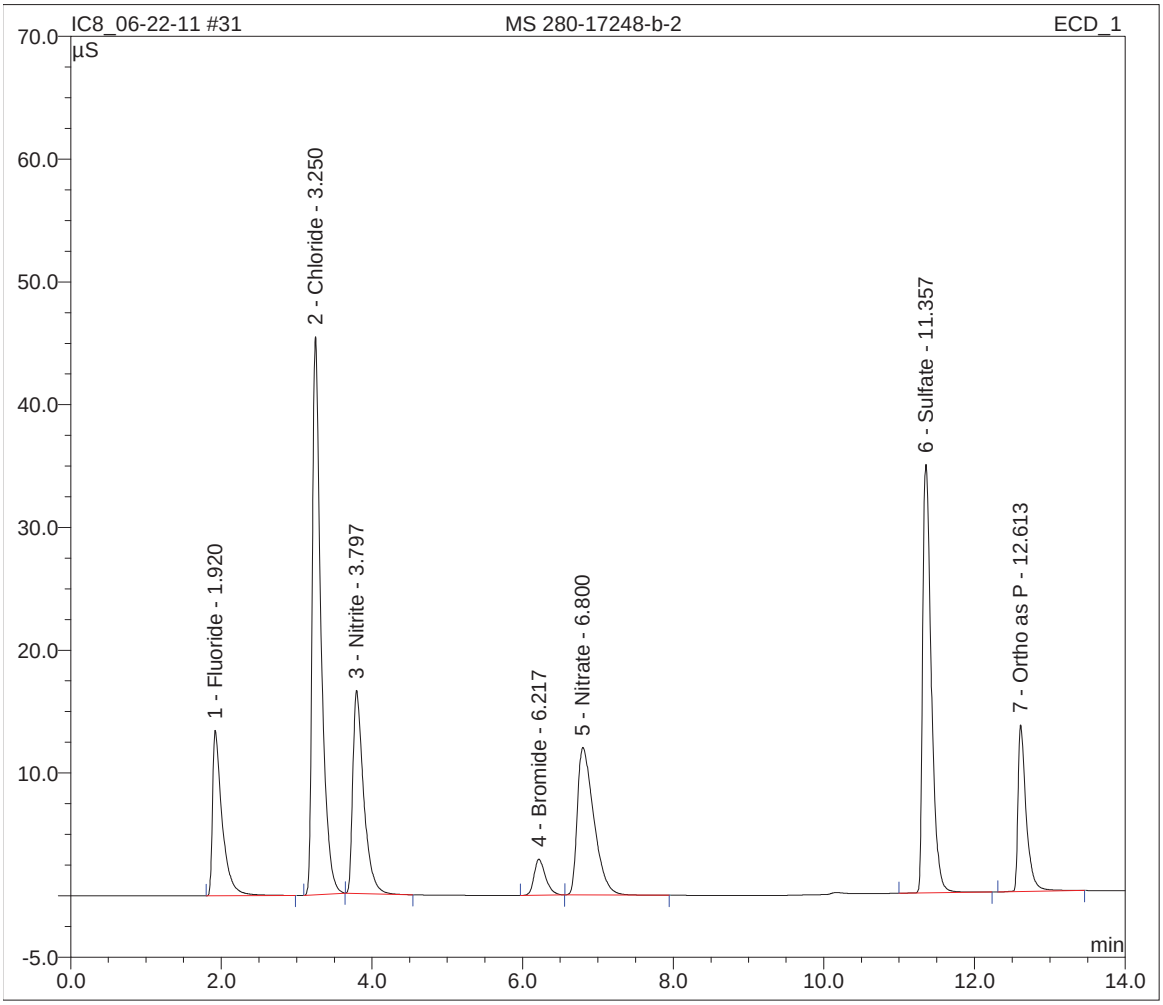
Sample Name:	**DU 280-17248-b-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 15:35**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.26	Chloride	BMB	0.002	0.016	-0.0265
3	6.97	Nitrate	BMB	0.006	0.016	0.0101
4	11.42	Sulfate	BMB	0.008	0.030	-0.0315
5	12.70	Ortho as P	BMB	0.084	0.143	-0.2078
TOTAL:				0.10	0.20	-0.26



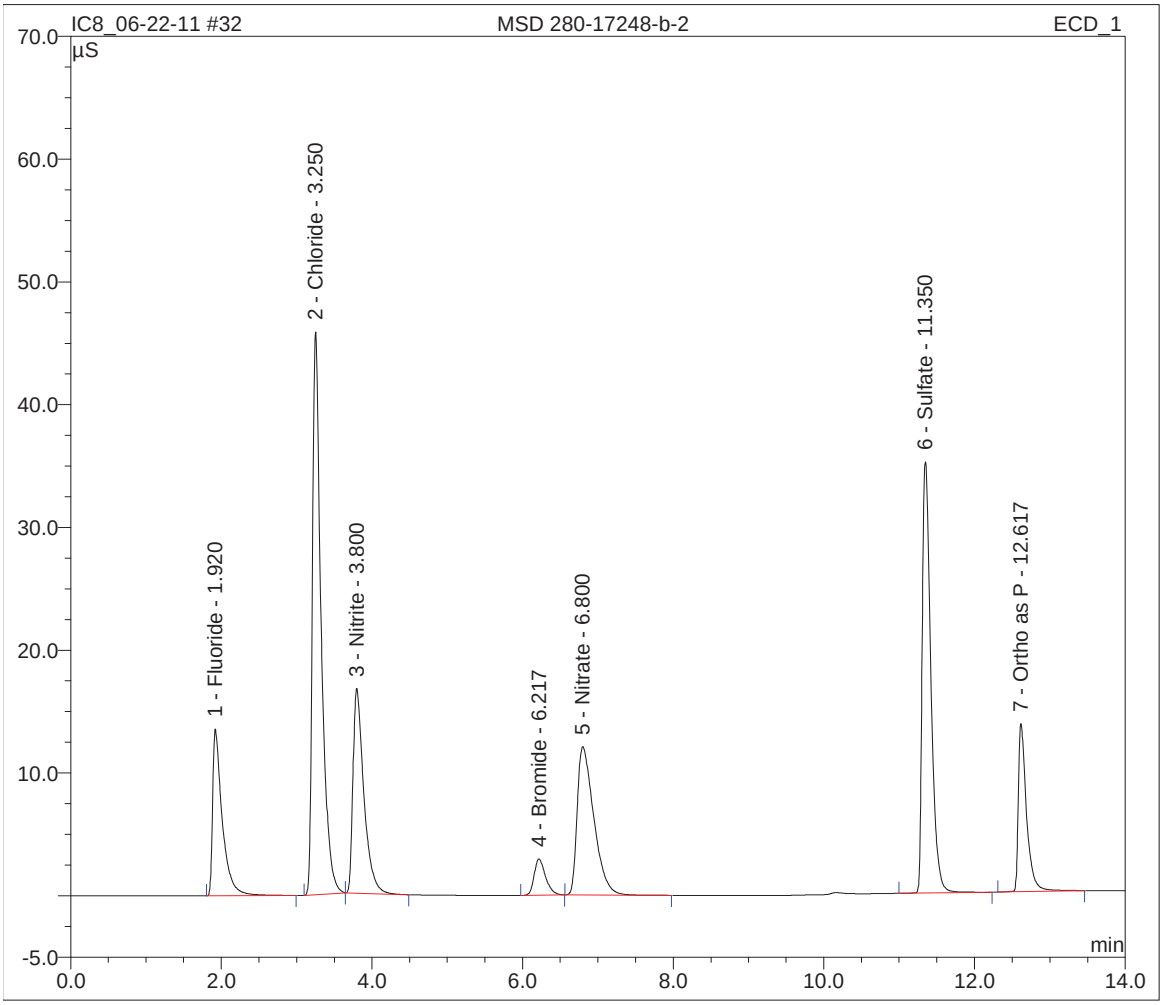
Sample Name:	**MS 280-17248-b-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 15:52**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	1.991	13.458	4.8693
2	3.25	Chloride	BMB	6.099	45.467	25.3821
3	3.80	Nitrite	BMB	2.749	16.531	5.1676
4	6.22	Bromide	BMB	0.515	2.938	5.1606
5	6.80	Nitrate	BMB	3.043	12.008	4.9591
6	11.36	Sulfate	BMB	4.663	34.896	25.3105
7	12.61	Ortho as P	BMB	1.718	13.562	5.1702
TOTAL:				20.78	138.86	76.02



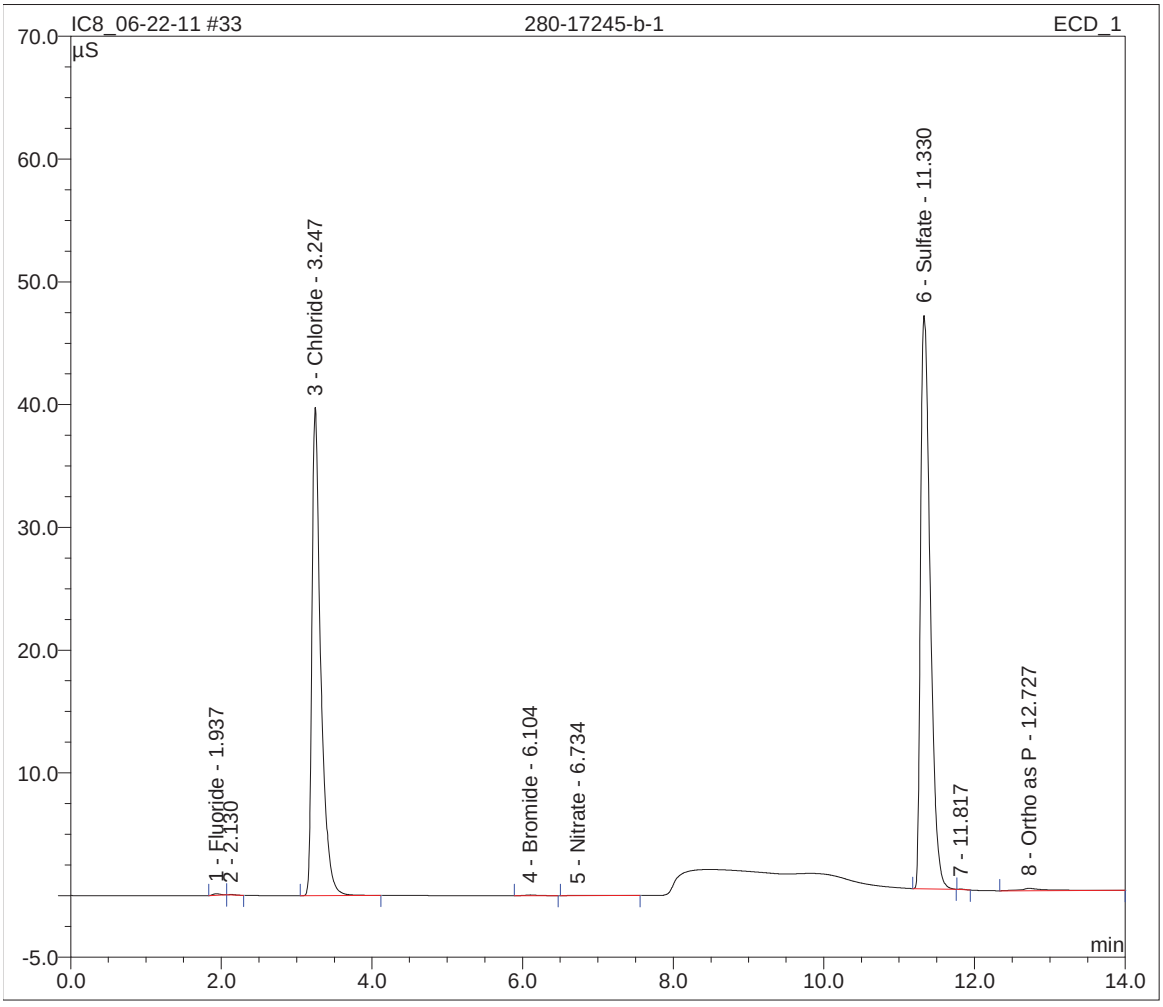
Sample Name:	**MSD 280-17248-b-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 16:08**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.013	13.567	4.9221
2	3.25	Chloride	BMb	6.176	45.850	25.7051
3	3.80	Nitrite	bMB	2.776	16.659	5.2172
4	6.22	Bromide	BMB	0.519	2.964	5.1958
5	6.80	Nitrate	BMB	3.086	12.082	5.0300
6	11.35	Sulfate	BMB	4.701	35.102	25.5183
7	12.62	Ortho as P	BMB	1.737	13.673	5.2319
		TOTAL:		21.01	139.90	76.82



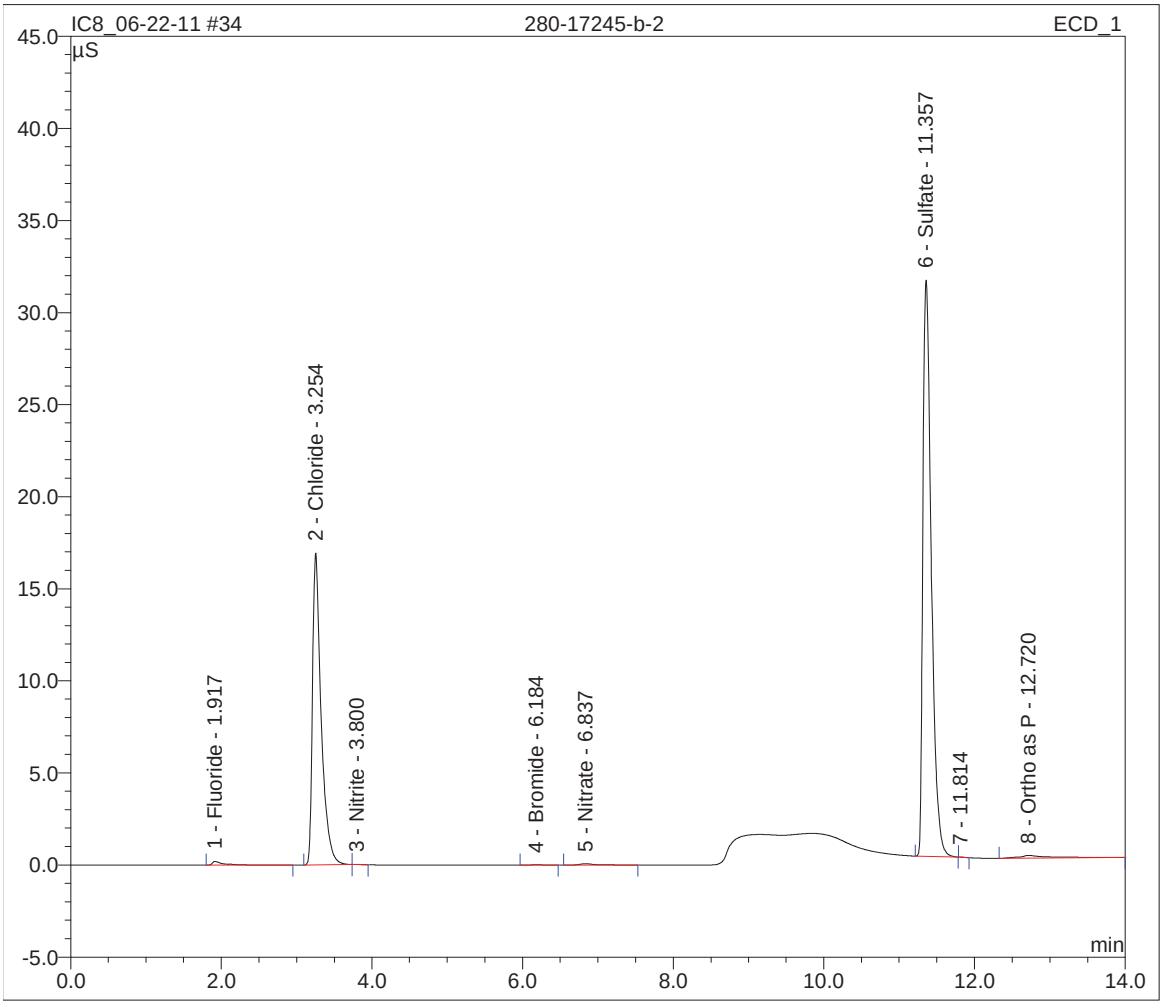
Sample Name:	**280-17245-b-1**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 16:25**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMb	0.014	0.120	0.0111
3	3.25	Chloride	BMB	5.371	39.743	22.3492
4	6.10	Bromide	BMB	0.009	0.056	0.1078
5	6.73	Nitrate	BMB	0.004	0.013	0.0061
6	11.33	Sulfate	BMB	6.967	46.709	37.8524
8	12.73	Ortho as P	BMB	0.082	0.192	-0.2122
		TOTAL:		12.45	86.83	60.11



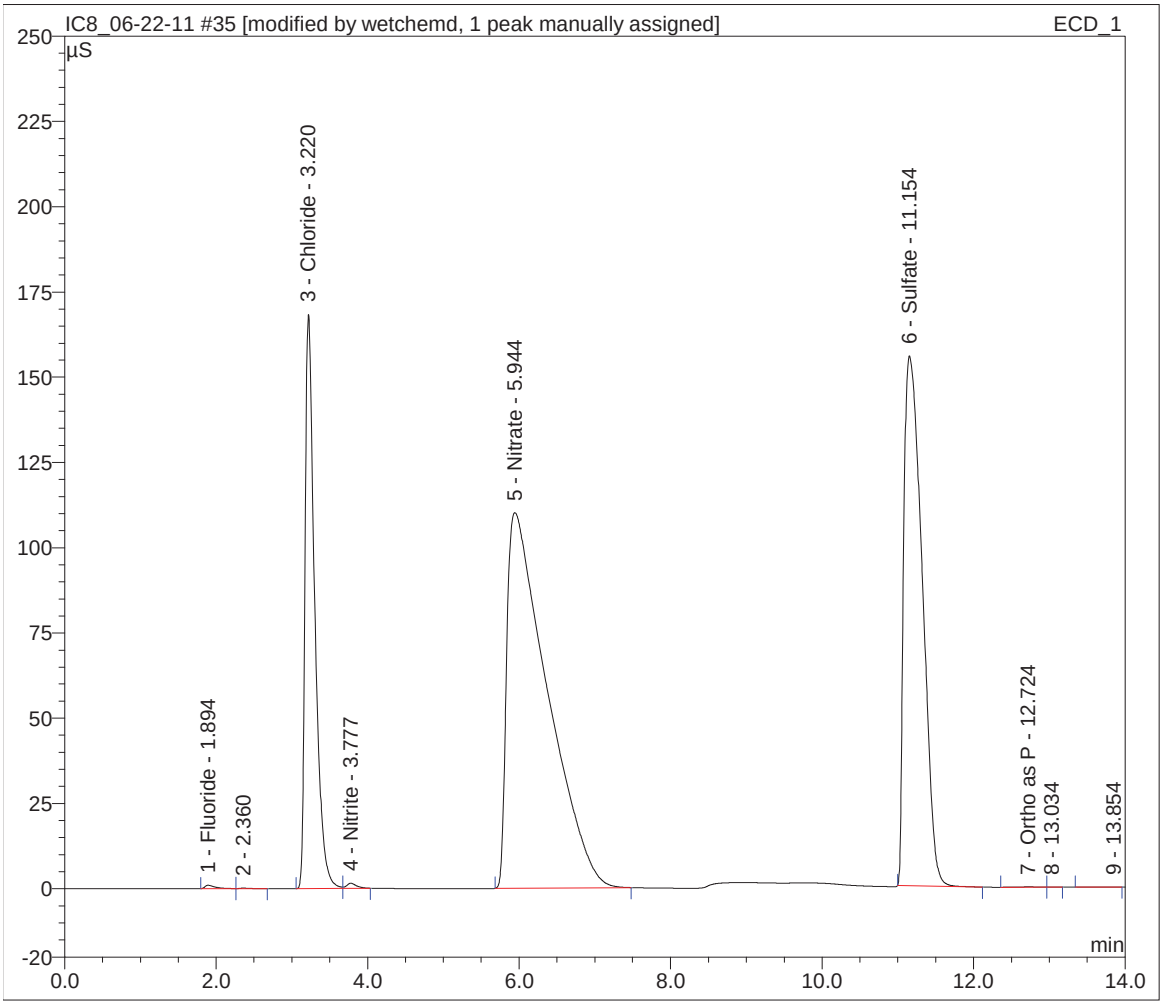
Sample Name:	**280-17245-b-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 16:42**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.034	0.193	0.0582
2	3.25	Chloride	BMb	2.256	16.938	9.3651
3	3.80	Nitrite	bMB	0.001	0.011	-0.0212
4	6.18	Bromide	BMB	0.003	0.018	0.0467
5	6.84	Nitrate	BMB	0.015	0.073	0.0246
6	11.36	Sulfate	BMB	4.077	31.296	22.1224
8	12.72	Ortho as P	BMB	0.076	0.151	-0.2325
		TOTAL:		6.46	48.68	31.36



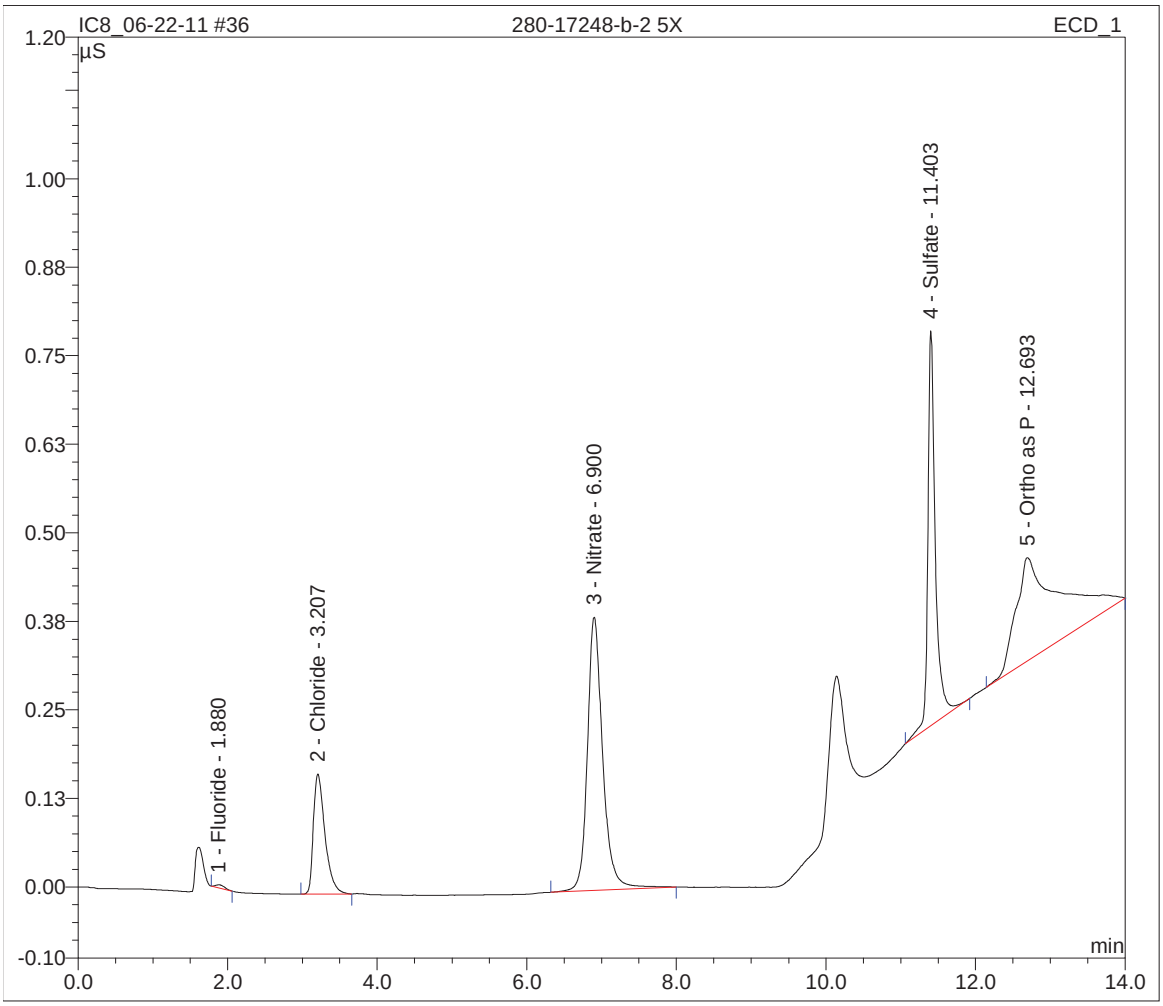
Sample Name:	**280-17245-a-3 2X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**2.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 16:59**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.89	Fluoride	BMb	0.157	1.003	0.7257
3	3.22	Chloride	BM *	25.023	168.368	208.4984
4	3.78	Nitrite	MB*	0.219	1.495	0.7791
5	5.94	Nitrate	BMB*^	67.865	110.123	221.2156
6	11.15	Sulfate	BMB	43.823	155.351	476.9931
7	12.72	Ortho as P	BMb	0.024	0.083	-0.8069
		TOTAL:		137.11	436.42	907.40



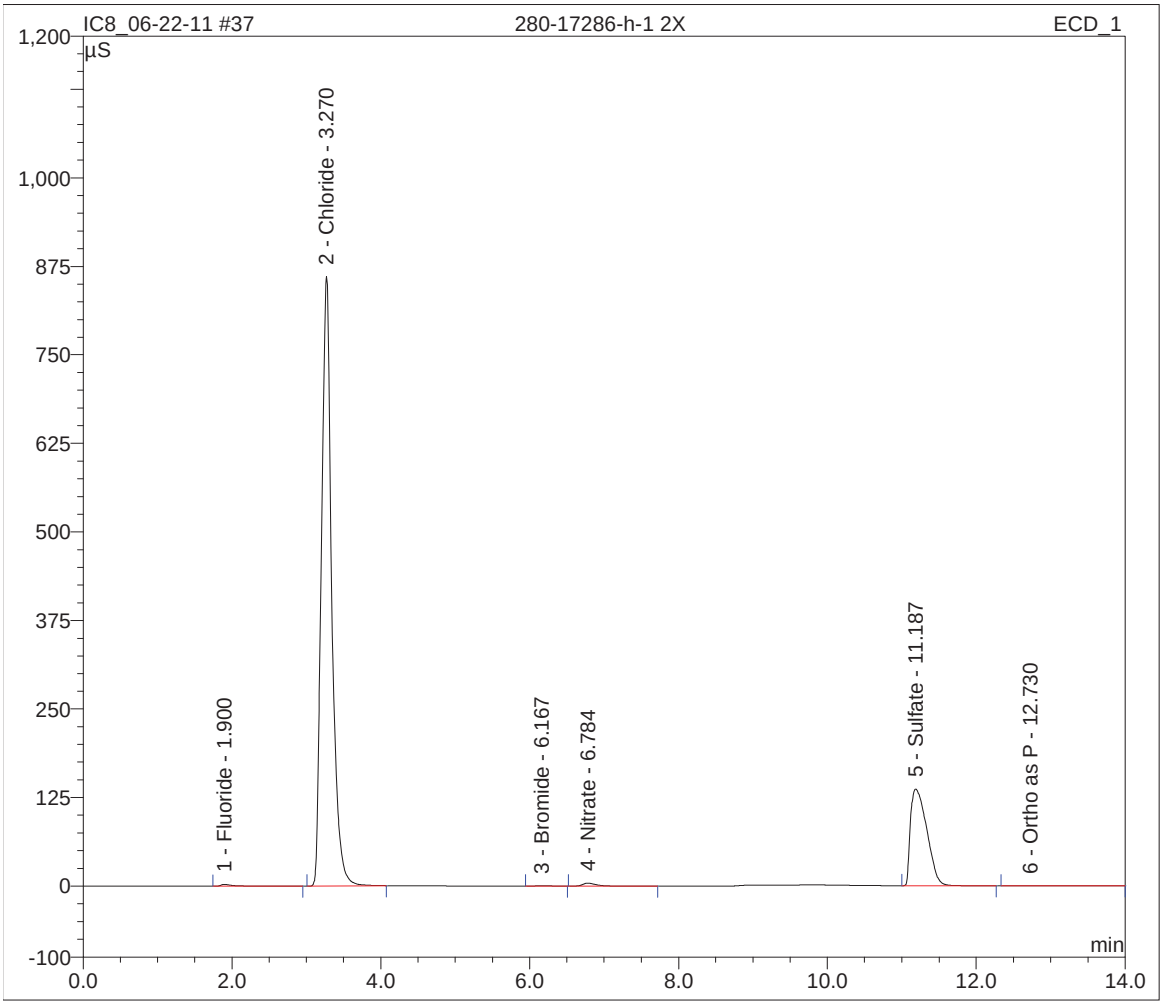
Sample Name:	**280-17248-b-2 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 17:16**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BMB	0.001	0.004	-0.1131
2	3.21	Chloride	BMB	0.030	0.169	0.4557
3	6.90	Nitrate	BMB	0.092	0.386	0.7478
4	11.40	Sulfate	BMB	0.064	0.558	1.3879
5	12.69	Ortho as P	BMB	0.098	0.146	-0.8085
		TOTAL:		0.28	1.26	1.67



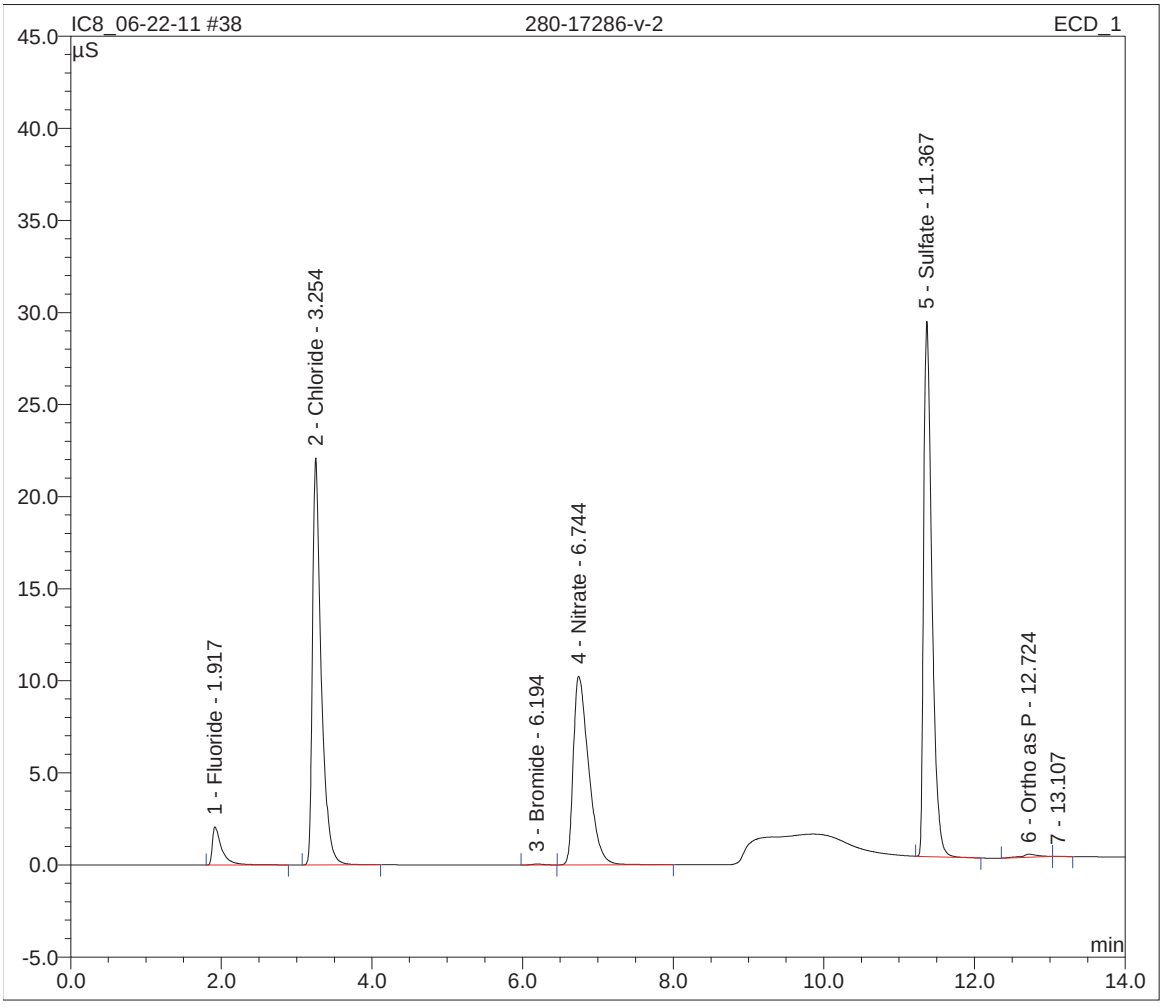
Sample Name:	**280-17286-h-1 2X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**2.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 18:12**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.90	Fluoride	BMB	0.400	2.406	1.9173
2	3.27	Chloride	BMB	138.657	860.450	1155.6376
3	6.17	Bromide	BMB	0.091	0.538	1.8519
4	6.78	Nitrate	BMB	0.826	4.123	2.6912
5	11.19	Sulfate	BMB	34.736	136.385	378.0563
6	12.73	Ortho as P	BMB	0.092	0.203	-0.3596
		TOTAL:		174.80	1004.11	1539.79



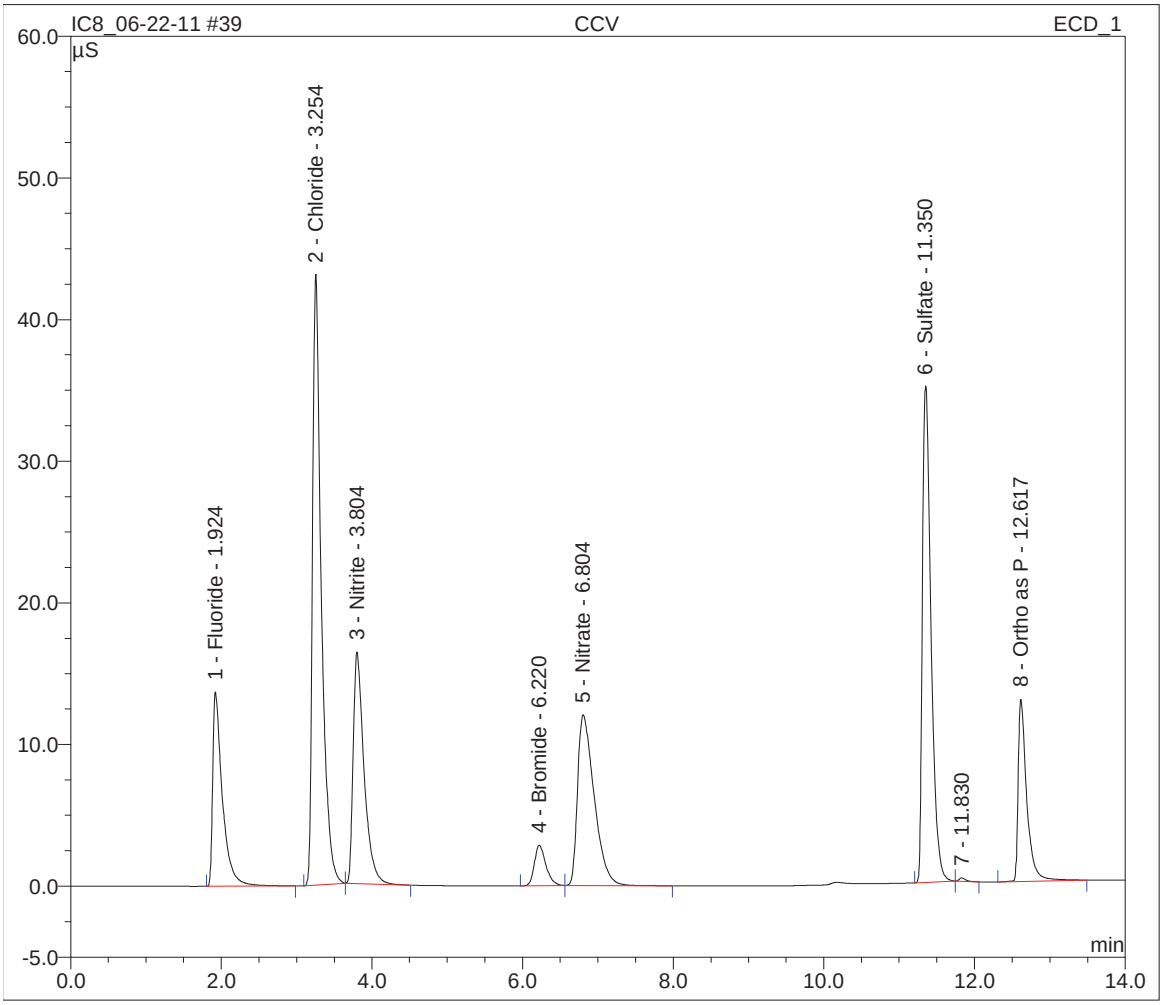
Sample Name:	**280-17286-v-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 18:29**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.297	2.072	0.7048
2	3.25	Chloride	BMB	2.957	22.098	12.2886
3	6.19	Bromide	BMB	0.008	0.051	0.1005
4	6.74	Nitrate	BMB	2.413	10.251	3.9325
5	11.37	Sulfate	BMB	3.698	29.077	20.0601
6	12.72	Ortho as P	BMb	0.038	0.163	-0.3570
		TOTAL:		9.41	63.71	36.73



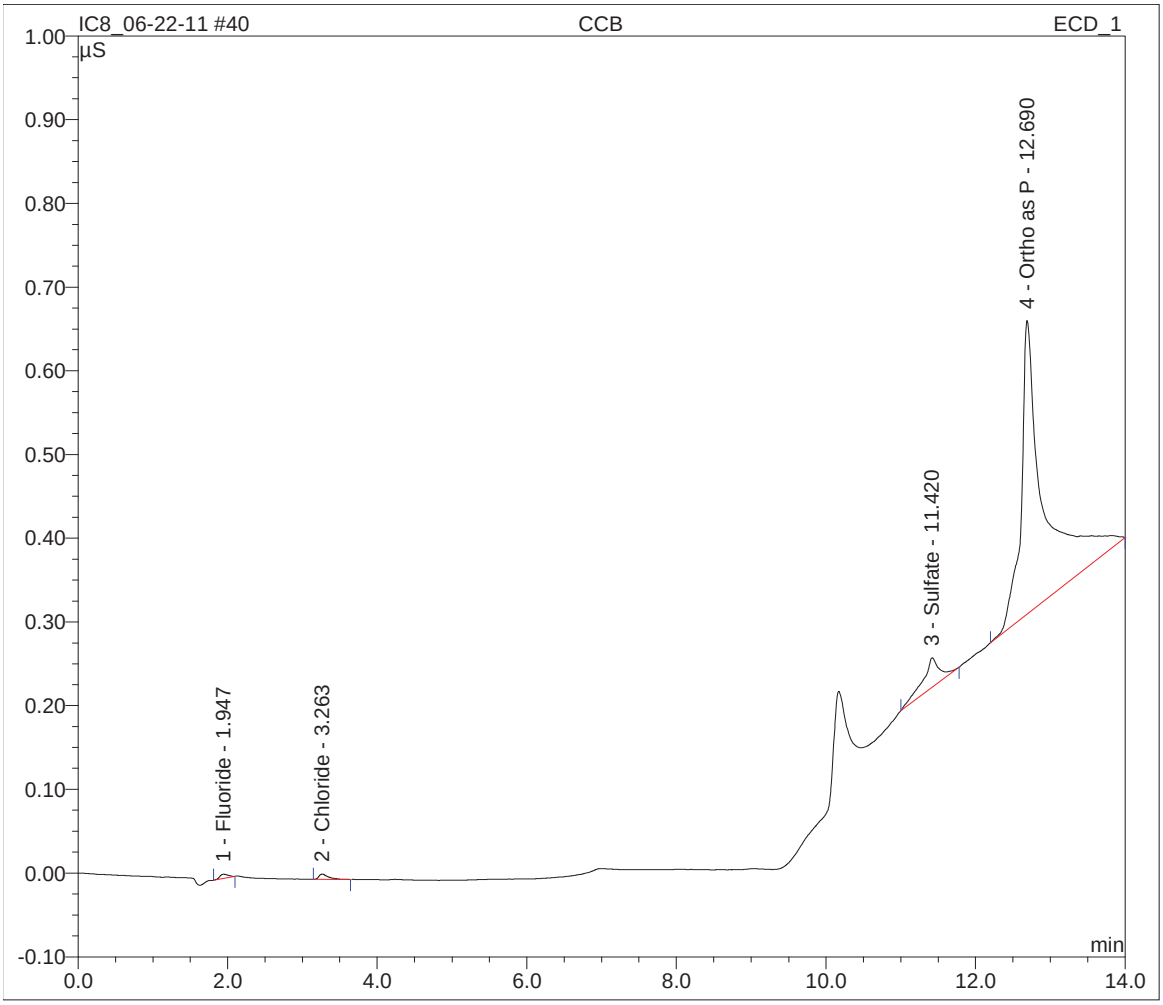
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 18:45**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.044	13.702	4.9980
2	3.25	Chloride	BMB	5.832	43.122	24.2678
3	3.80	Nitrite	BMB	2.730	16.351	5.1315
4	6.22	Bromide	BMB	0.506	2.869	5.0723
5	6.80	Nitrate	BMB	3.076	12.038	5.0135
6	11.35	Sulfate	BMb	4.672	35.027	25.3606
8	12.62	Ortho as P	BMB	1.698	12.849	5.1057
		TOTAL:		20.56	135.96	74.95



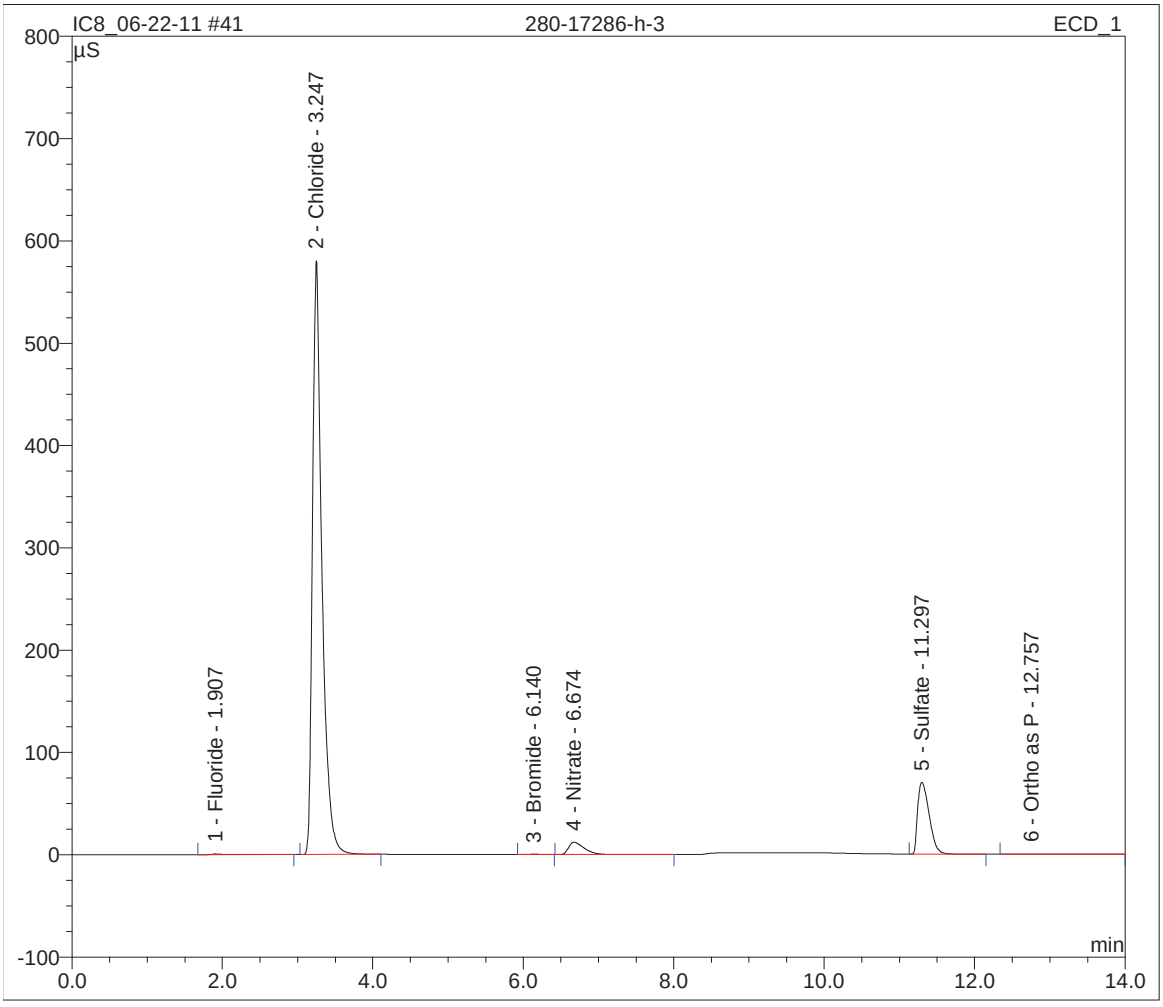
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 19:02**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	0.001	0.005	-0.0226
2	3.26	Chloride	BMB	0.001	0.006	-0.0317
3	11.42	Sulfate	BMB	0.009	0.035	-0.0234
4	12.69	Ortho as P	BMB	0.125	0.350	-0.0732
		TOTAL:		0.14	0.40	-0.15



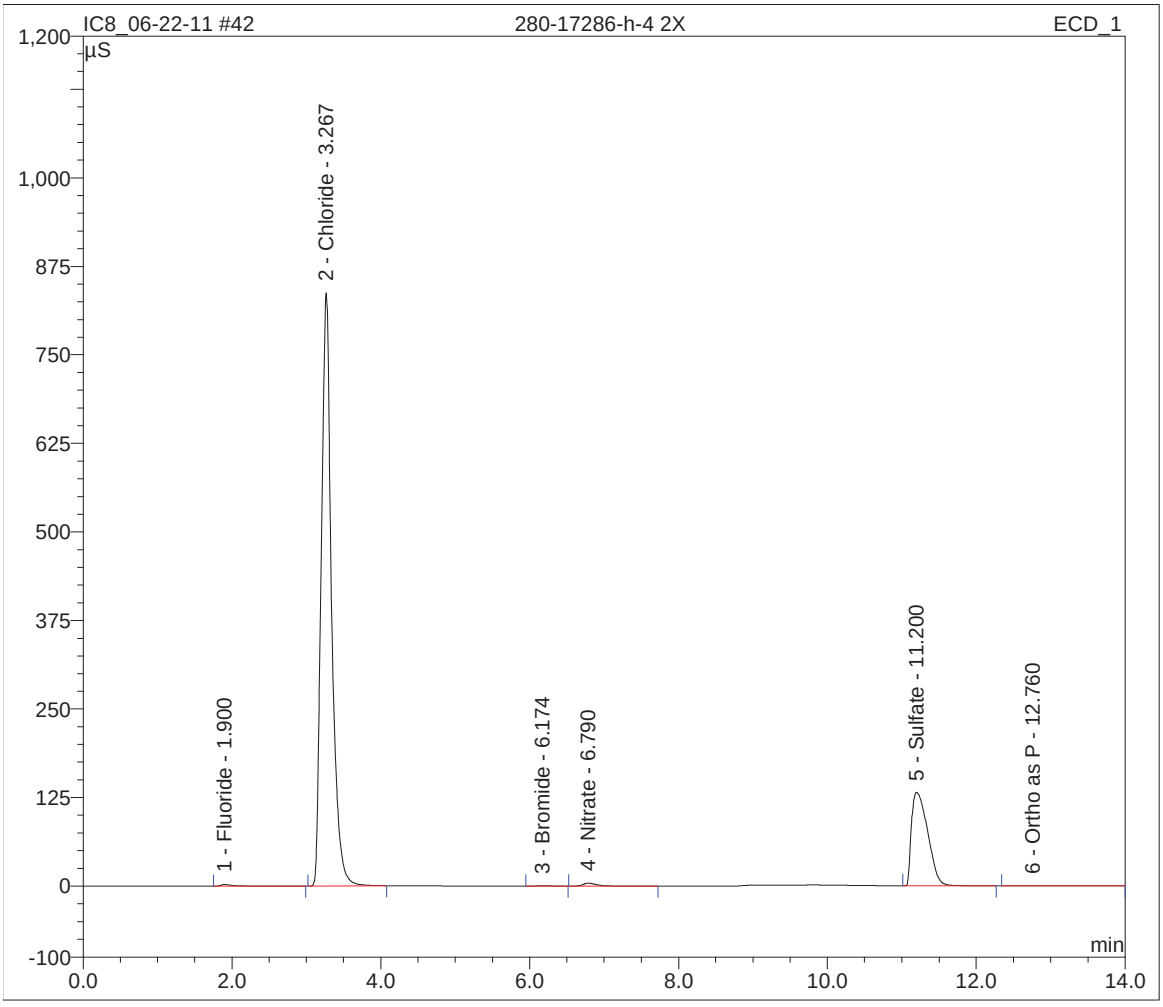
Sample Name:	**280-17286-h-3**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 19:19**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.91	Fluoride	BMB	0.109	0.640	0.2430
2	3.25	Chloride	BMB	83.887	580.303	349.5638
3	6.14	Bromide	BMB	0.060	0.368	0.6146
4	6.67	Nitrate	BMB	2.904	11.945	4.7322
5	11.30	Sulfate	BMB	12.366	70.091	67.2467
6	12.76	Ortho as P	BMB	0.075	0.127	-0.2371
		TOTAL:		99.40	663.47	422.16



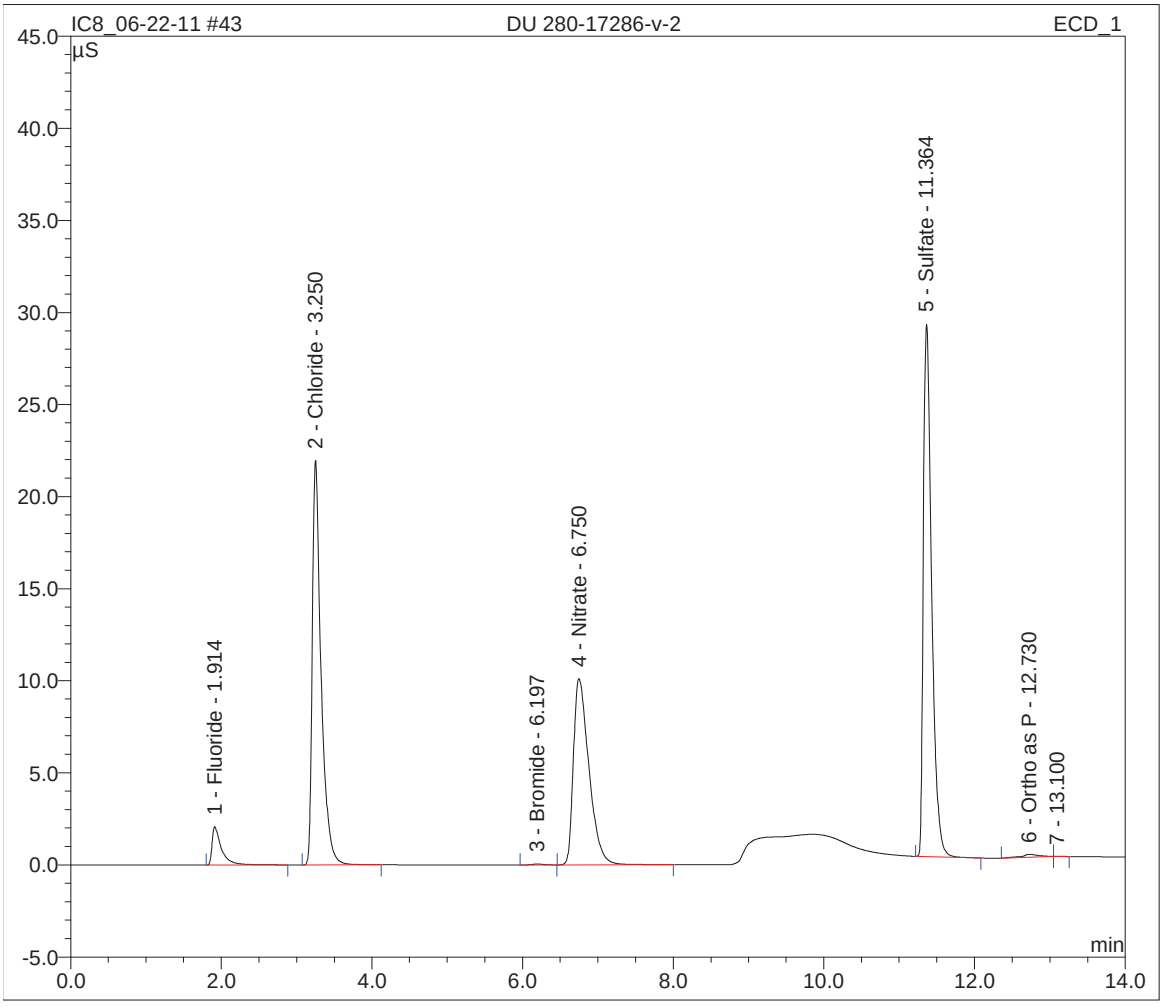
Sample Name:	**280-17286-h-4 2X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**2.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 19:36**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.90	Fluoride	BMB	0.392	2.295	1.8763
2	3.27	Chloride	BMB	134.526	837.569	1121.2089
3	6.17	Bromide	BMB	0.089	0.518	1.8141
4	6.79	Nitrate	BMB	0.834	4.083	2.7169
5	11.20	Sulfate	BMB	33.186	131.886	361.1849
6	12.76	Ortho as P	BMB	0.088	0.172	-0.3864
		TOTAL:		169.11	976.52	1488.41



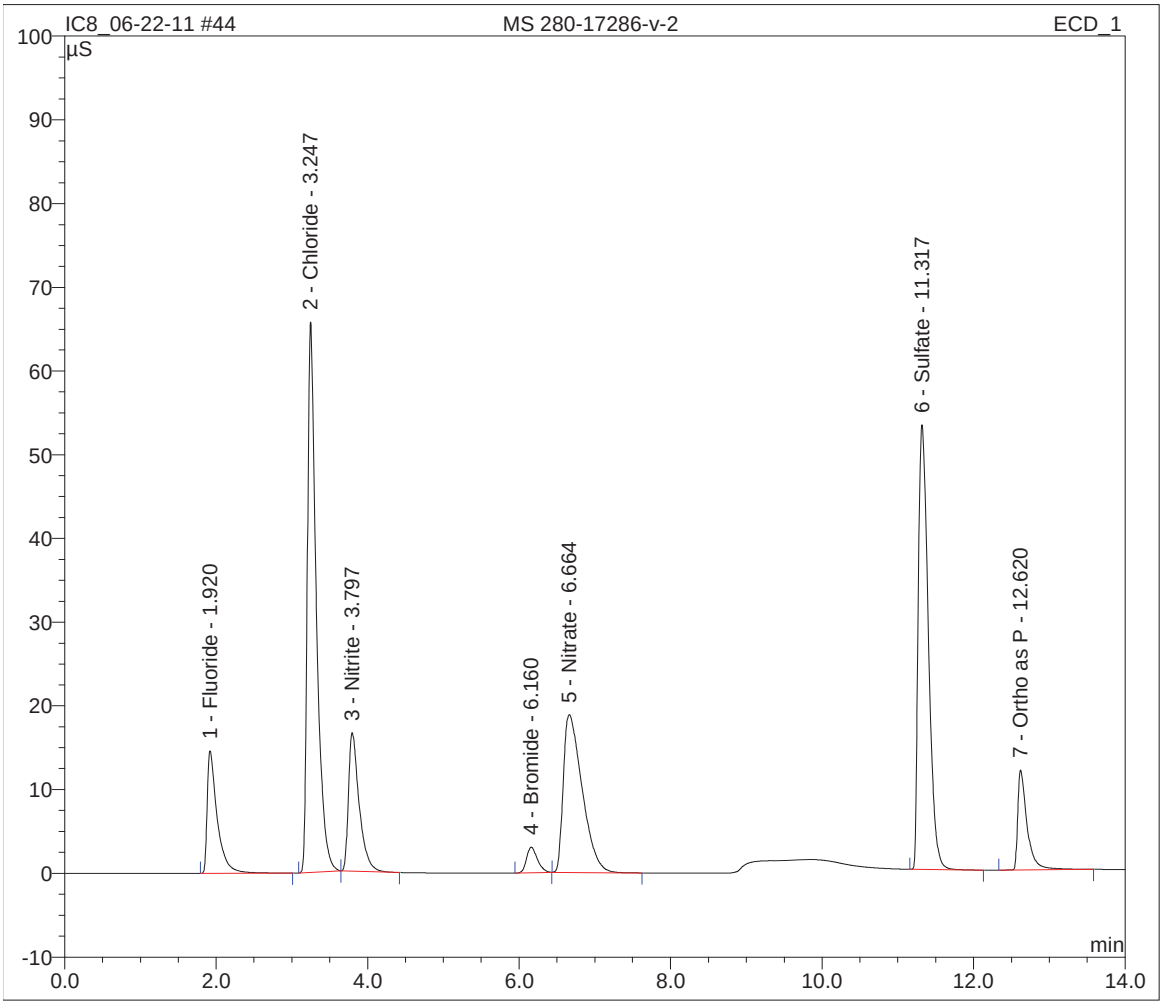
Sample Name:	**DU 280-17286-v-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 19:53**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.91	Fluoride	BMB	0.298	2.075	0.7073
2	3.25	Chloride	BMB	2.962	21.964	12.3093
3	6.20	Bromide	BMB	0.008	0.051	0.1003
4	6.75	Nitrate	BMB	2.414	10.105	3.9345
5	11.36	Sulfate	BMB	3.703	28.925	20.0834
6	12.73	Ortho as P	BMb	0.039	0.156	-0.3556
		TOTAL:		9.42	63.28	36.78



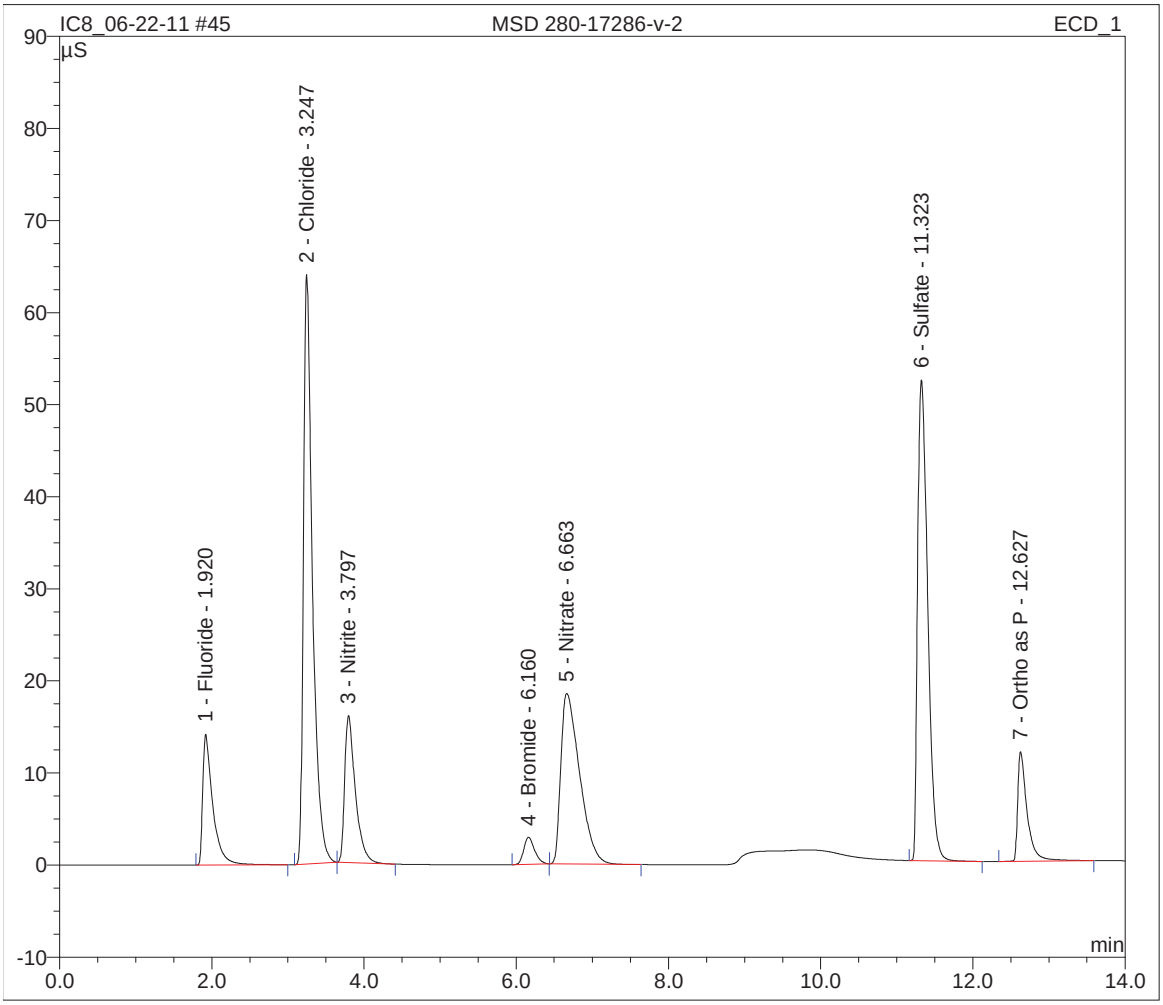
Sample Name:	**MS 280-17286-v-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 20:09**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.240	14.616	5.4790
2	3.25	Chloride	BMb	9.009	65.763	37.5104
3	3.80	Nitrite	bMB	2.714	16.536	5.1015
4	6.16	Bromide	BMB	0.508	3.065	5.0837
5	6.66	Nitrate	BMB	5.416	18.845	8.8273
6	11.32	Sulfate	BMB	8.239	53.111	44.7771
7	12.62	Ortho as P	BMB	1.713	11.953	5.1549
		TOTAL:		29.84	183.89	111.93



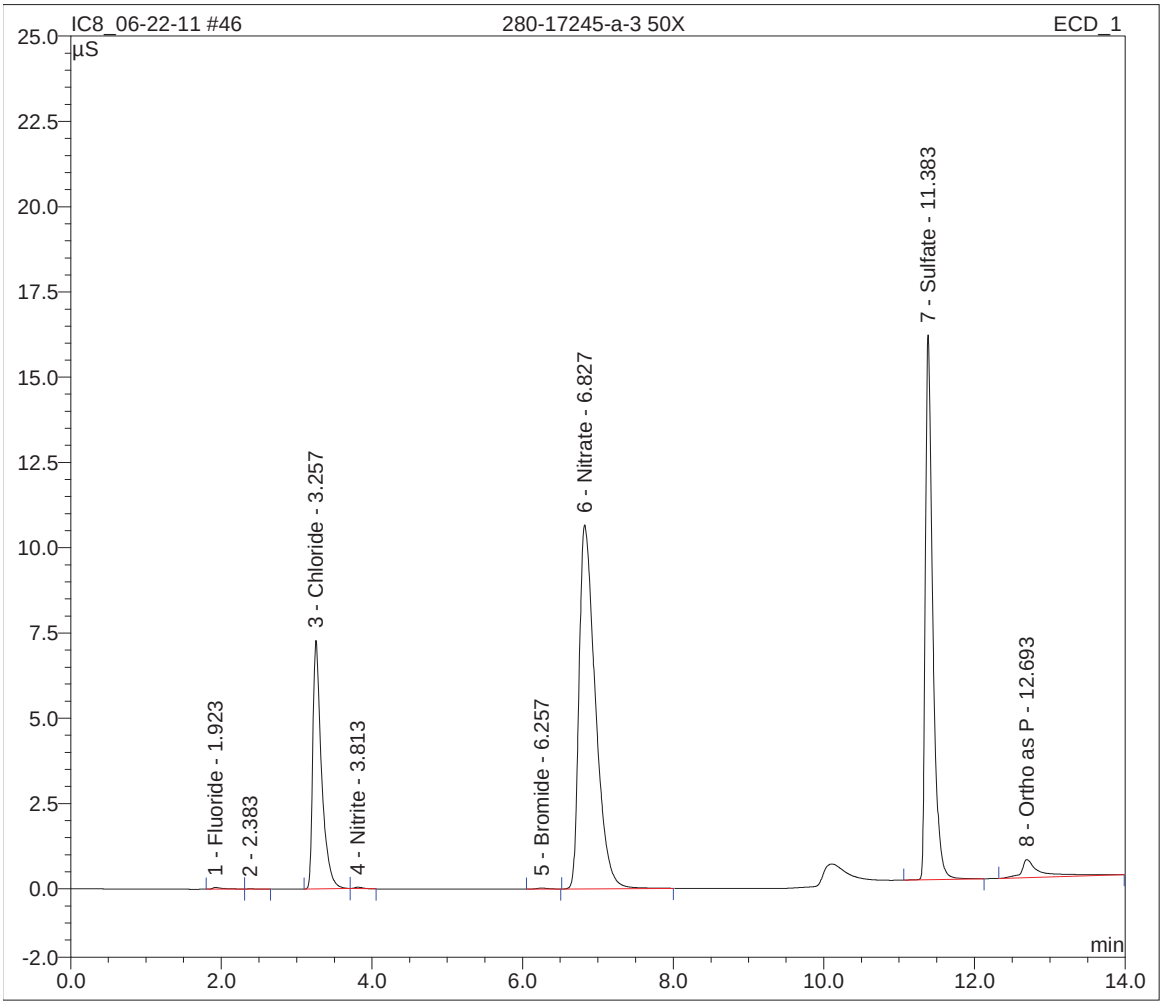
Sample Name:	**MSD 280-17286-v-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 20:26**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.168	14.195	5.3042
2	3.25	Chloride	BMb	8.759	64.028	36.4670
3	3.80	Nitrite	bMB	2.610	15.969	4.9045
4	6.16	Bromide	BMB	0.487	2.939	4.8817
5	6.66	Nitrate	BMB	5.291	18.508	8.6235
6	11.32	Sulfate	BMB	8.047	52.193	43.7366
7	12.63	Ortho as P	BMB	1.707	11.900	5.1343
		TOTAL:		29.07	179.73	109.05



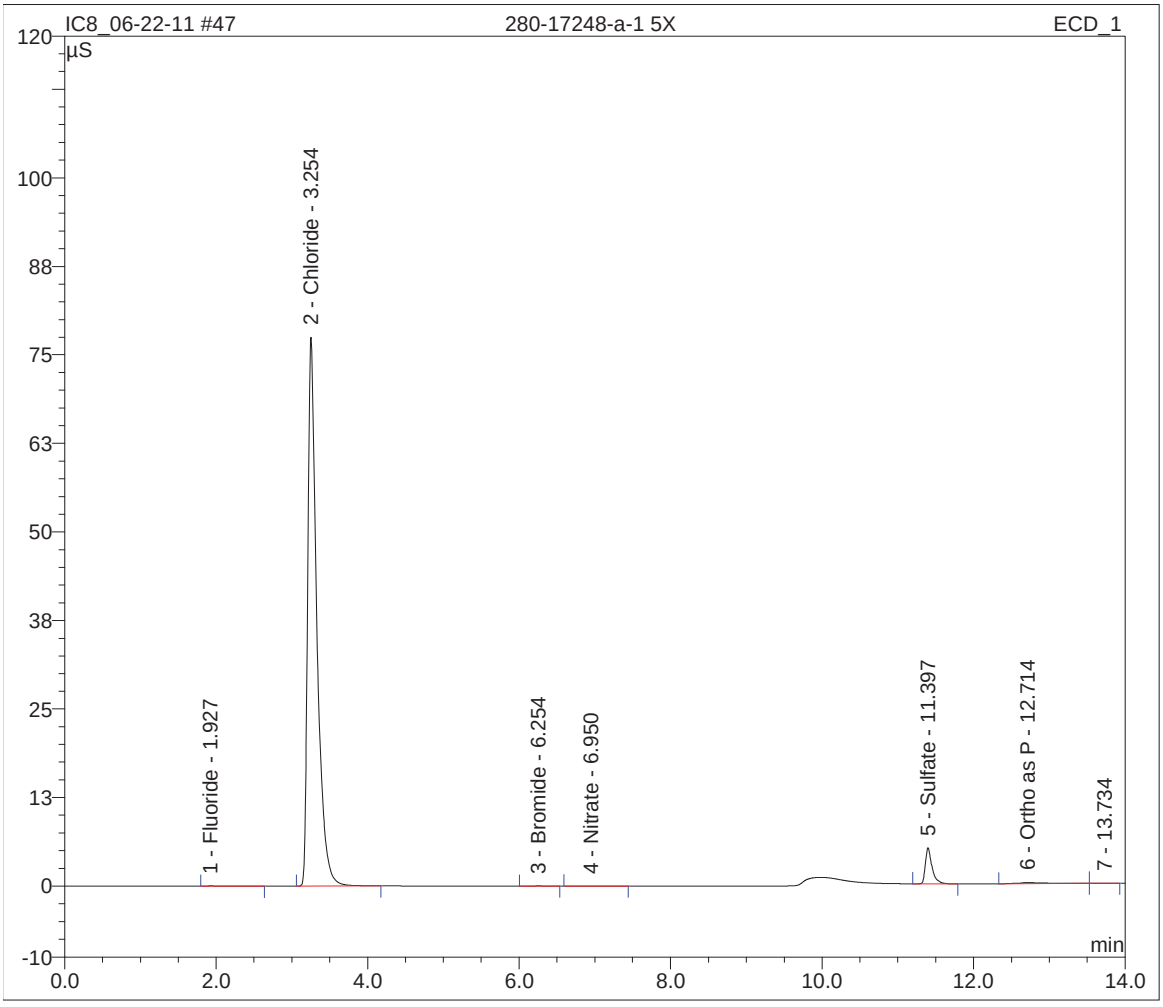
Sample Name:	**280-17245-a-3 50X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**50.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 20:43**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMb	0.007	0.047	-0.3416
3	3.26	Chloride	BMb	0.978	7.291	201.9319
4	3.81	Nitrite	bMB	0.005	0.043	-0.6656
5	6.26	Bromide	BMB	0.005	0.028	3.2373
6	6.83	Nitrate	BMB	2.676	10.669	218.1027
7	11.38	Sulfate	BMB	1.821	15.981	492.0261
8	12.69	Ortho as P	BMB	0.154	0.529	1.2570
TOTAL:				5.65	34.59	915.55



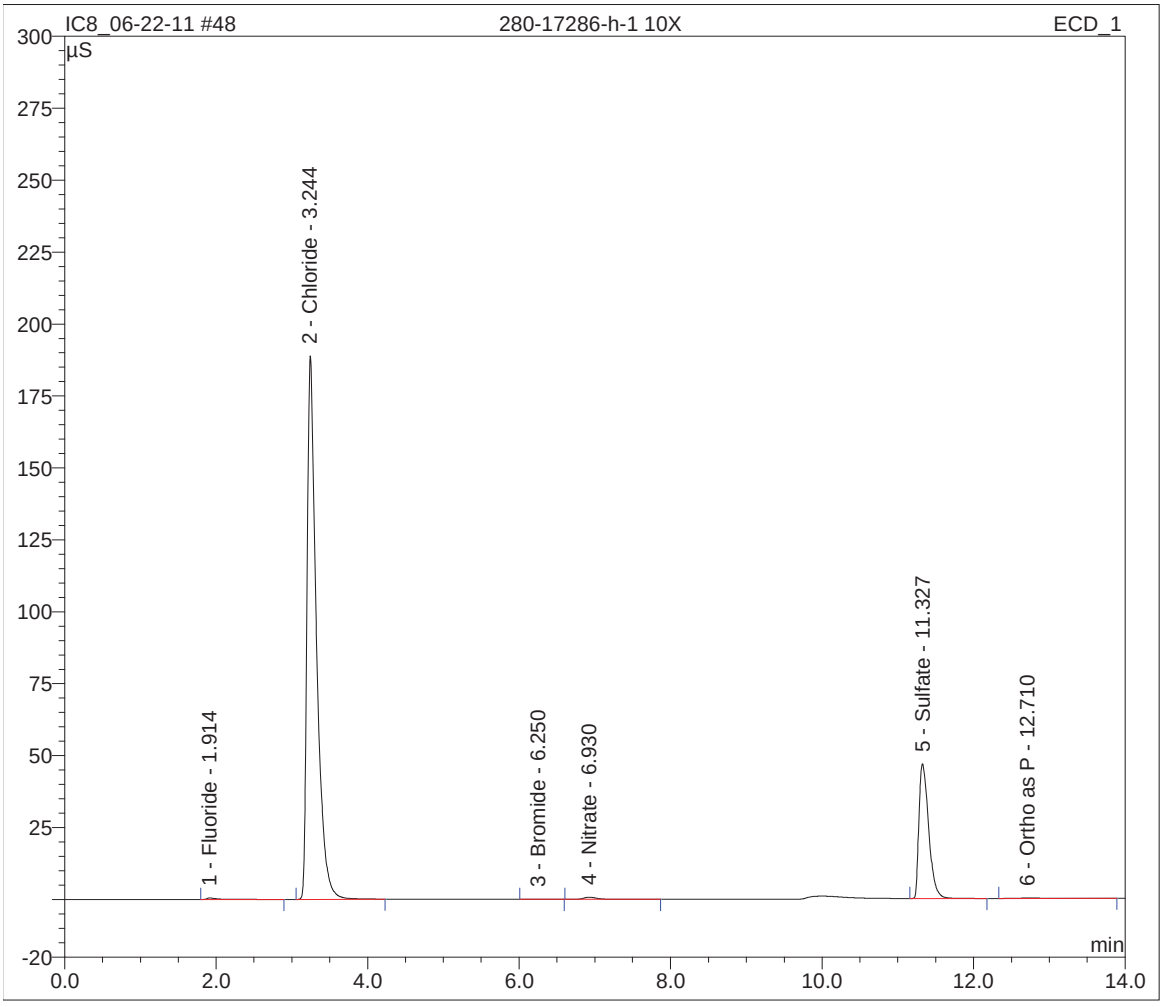
Sample Name:	**280-17248-a-1 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 21:00**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.93	Fluoride	BMB	0.006	0.032	-0.0445
2	3.25	Chloride	BMB	10.881	77.511	226.5559
3	6.25	Bromide	BMB	0.004	0.022	0.2753
4	6.95	Nitrate	BMB	0.002	0.007	0.0184
5	11.40	Sulfate	BMB	0.517	5.095	13.7166
6	12.71	Ortho as P	BMB	0.066	0.170	-1.3335
		TOTAL:		11.48	82.84	239.19



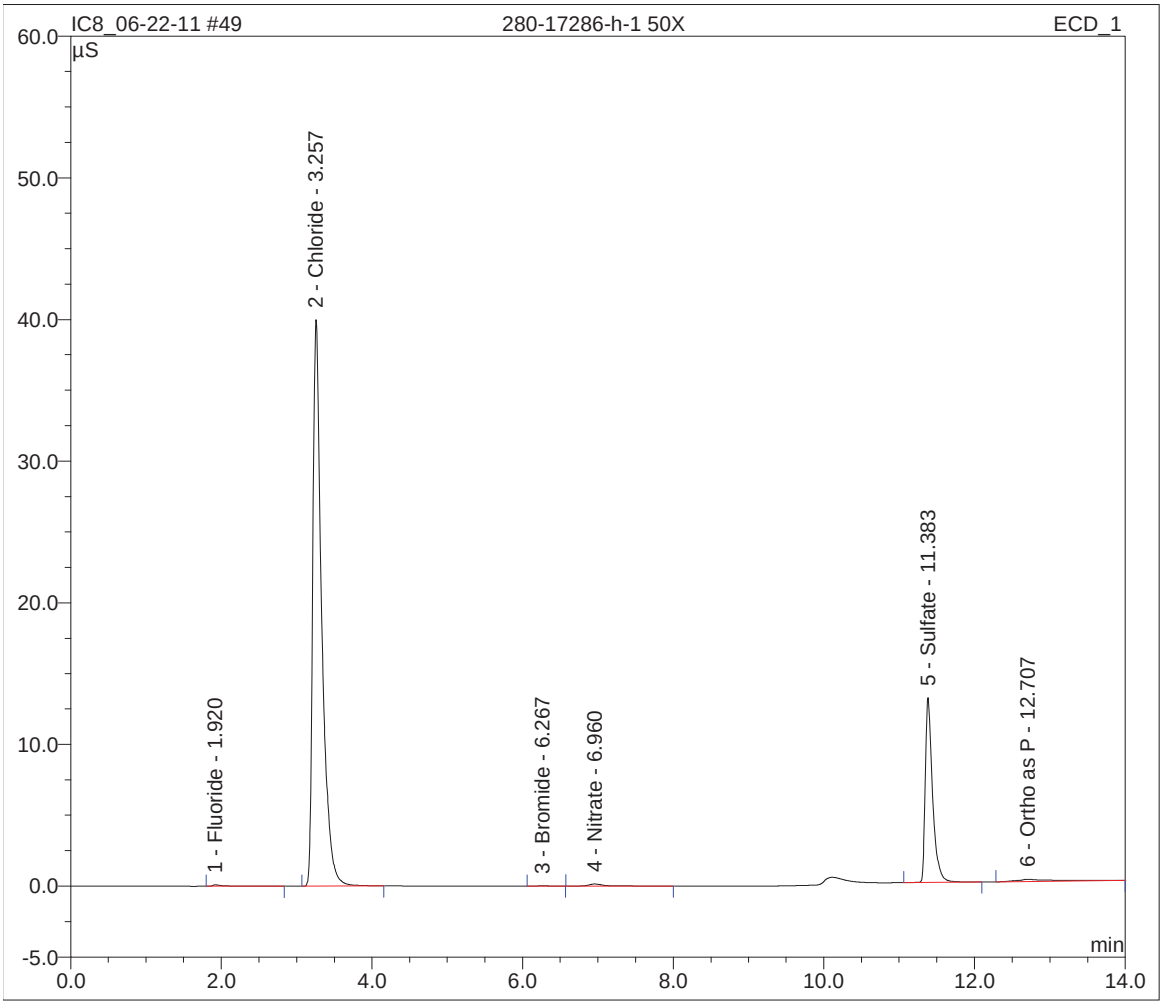
Sample Name:	**280-17286-h-1 10X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 21:17**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.91	Fluoride	BMB	0.075	0.502	1.6028
2	3.24	Chloride	BMB	27.264	188.791	1135.8986
3	6.25	Bromide	BMB	0.015	0.088	1.7226
4	6.93	Nitrate	BMB	0.152	0.756	2.4828
5	11.33	Sulfate	BMB	6.968	46.739	378.6101
6	12.71	Ortho as P	BMB	0.075	0.158	-2.3474
		TOTAL:		34.55	237.04	1517.97



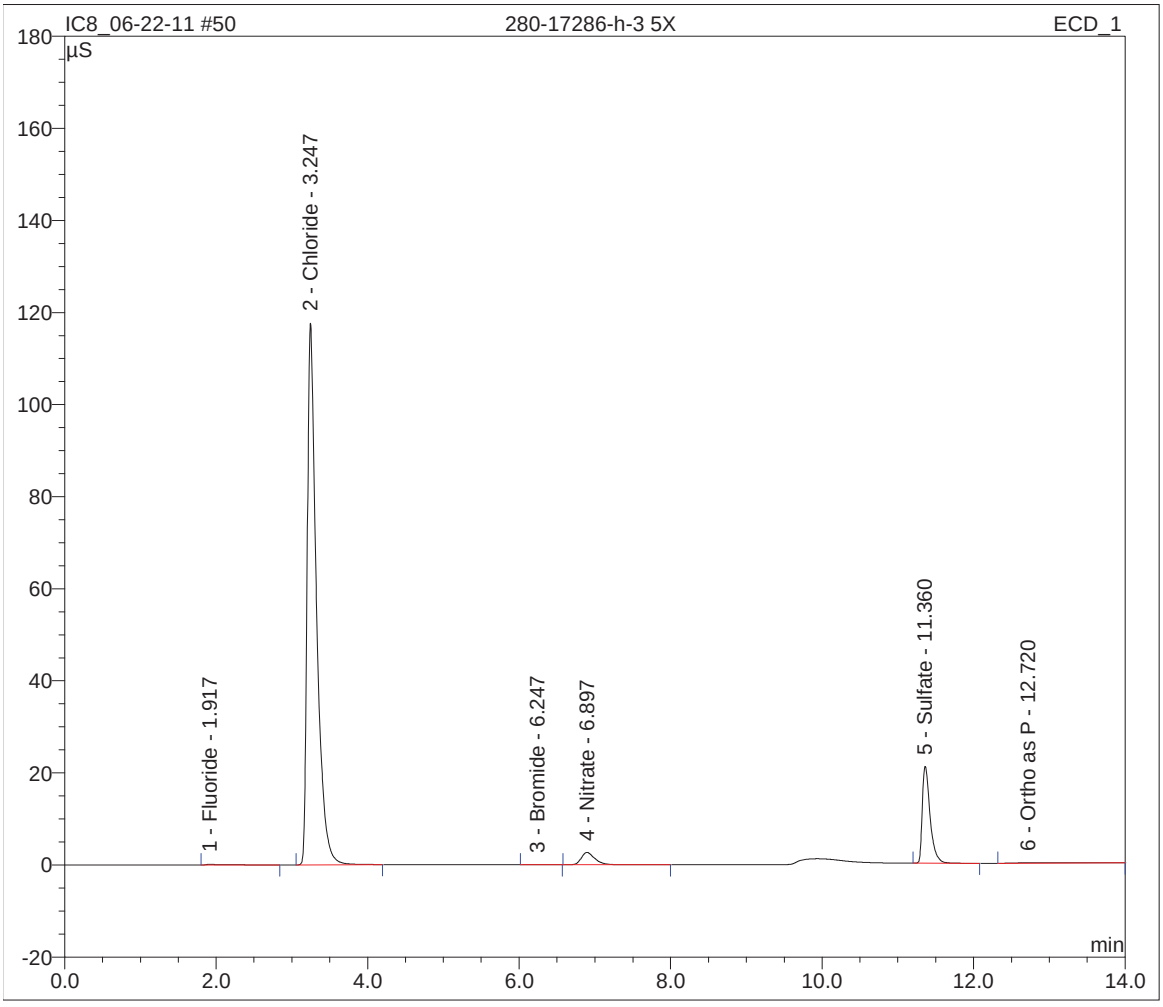
Sample Name:	**280-17286-h-1 50X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**50.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 21:33**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.015	0.093	0.6159
2	3.26	Chloride	BMB	5.540	39.993	1152.6505
3	6.27	Bromide	BMB	0.003	0.016	2.2637
4	6.96	Nitrate	BMB	0.032	0.144	2.5851
5	11.38	Sulfate	BMB	1.461	13.028	394.0897
6	12.71	Ortho as P	BMB	0.089	0.154	-9.4612
		TOTAL:		7.14	53.43	1542.74



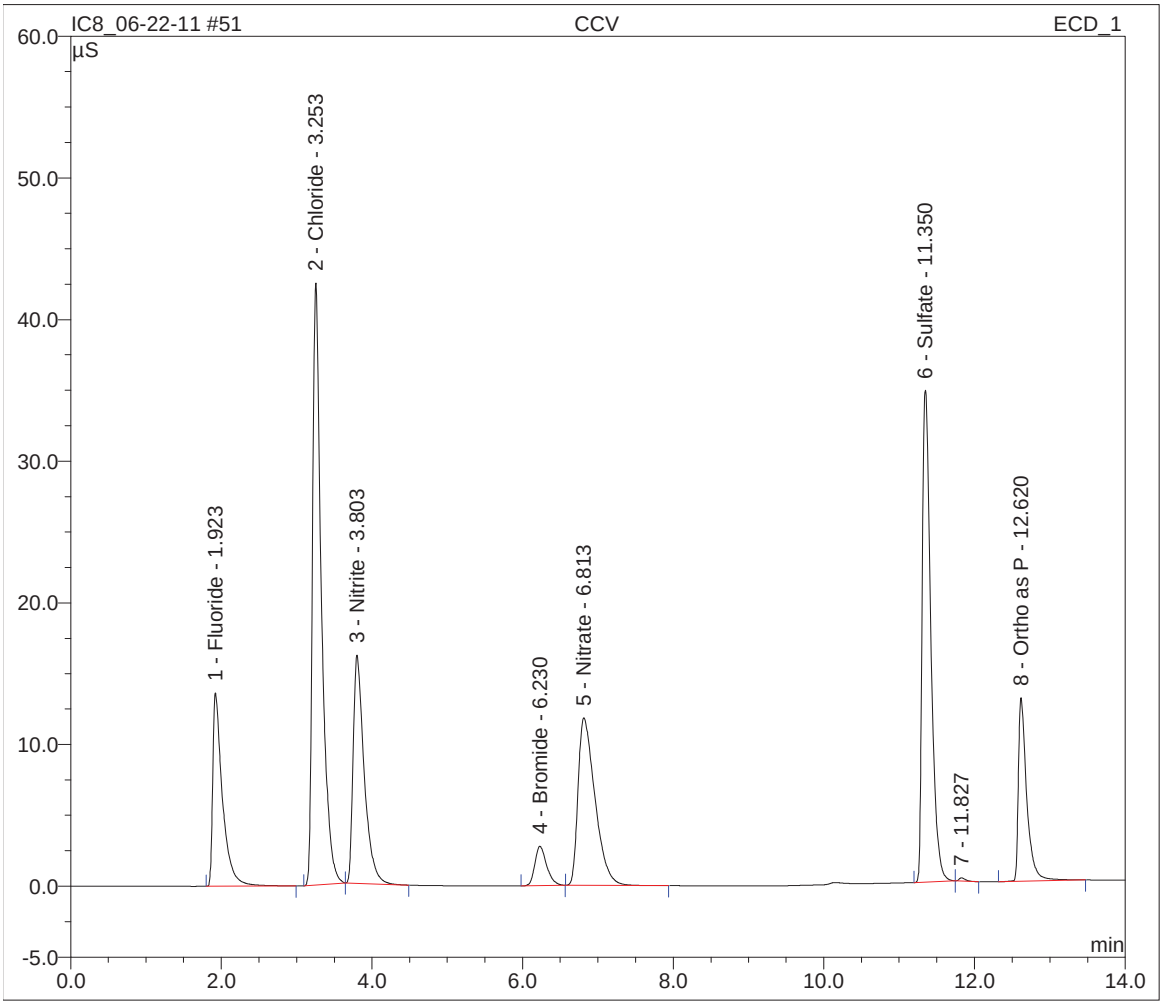
Sample Name:	**280-17286-h-3 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 21:50**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.020	0.124	0.1273
2	3.25	Chloride	BMB	16.764	117.696	349.1452
3	6.25	Bromide	BMB	0.010	0.059	0.6105
4	6.90	Nitrate	BMB	0.560	2.681	4.5599
5	11.36	Sulfate	BMB	2.513	20.982	68.0248
6	12.72	Ortho as P	BMB	0.073	0.115	-1.2198
		TOTAL:		19.94	141.66	421.25



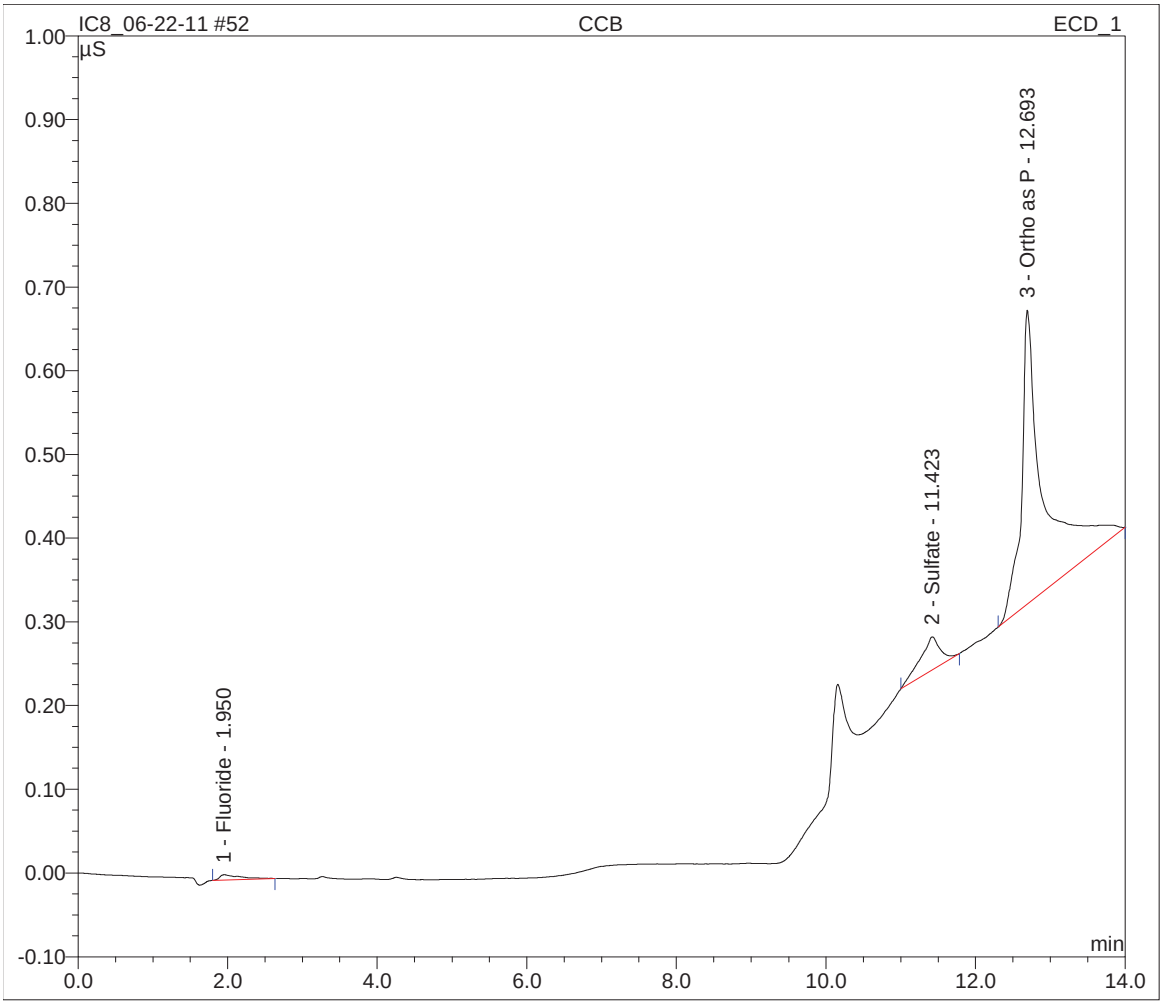
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 22:07**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.042	13.641	4.9939
2	3.25	Chloride	BMB	5.840	42.505	24.3039
3	3.80	Nitrite	BMB	2.729	16.114	5.1288
4	6.23	Bromide	BMB	0.505	2.787	5.0583
5	6.81	Nitrate	BMB	3.076	11.820	5.0125
6	11.35	Sulfate	BMb	4.646	34.712	25.2221
8	12.62	Ortho as P	BMB	1.677	12.948	5.0352
		TOTAL:		20.51	134.53	74.75



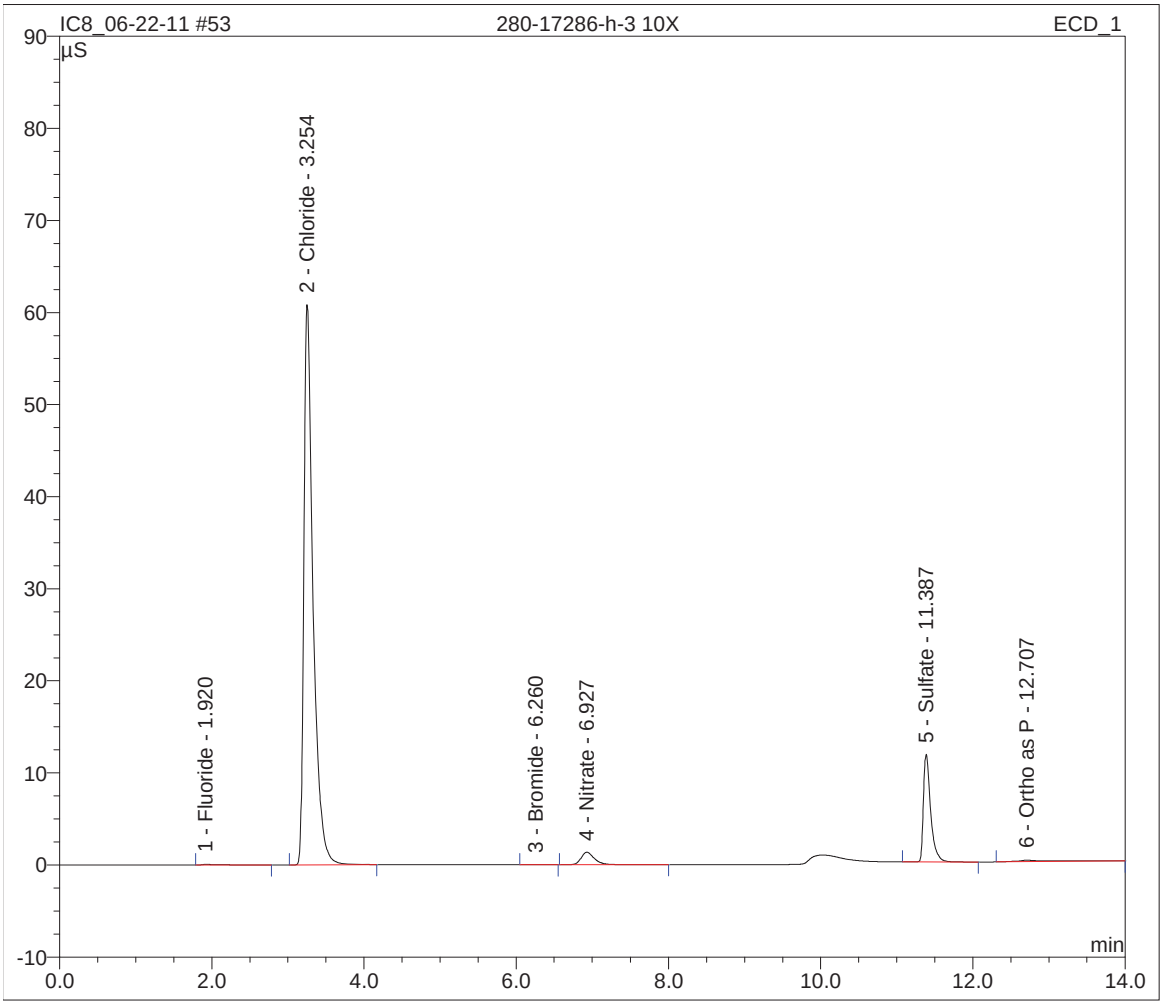
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 22:24**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	0.002	0.006	-0.0191
2	11.42	Sulfate	BMB	0.013	0.040	-0.0046
3	12.69	Ortho as P	BMB	0.123	0.351	-0.0767
		TOTAL:		0.14	0.40	-0.10



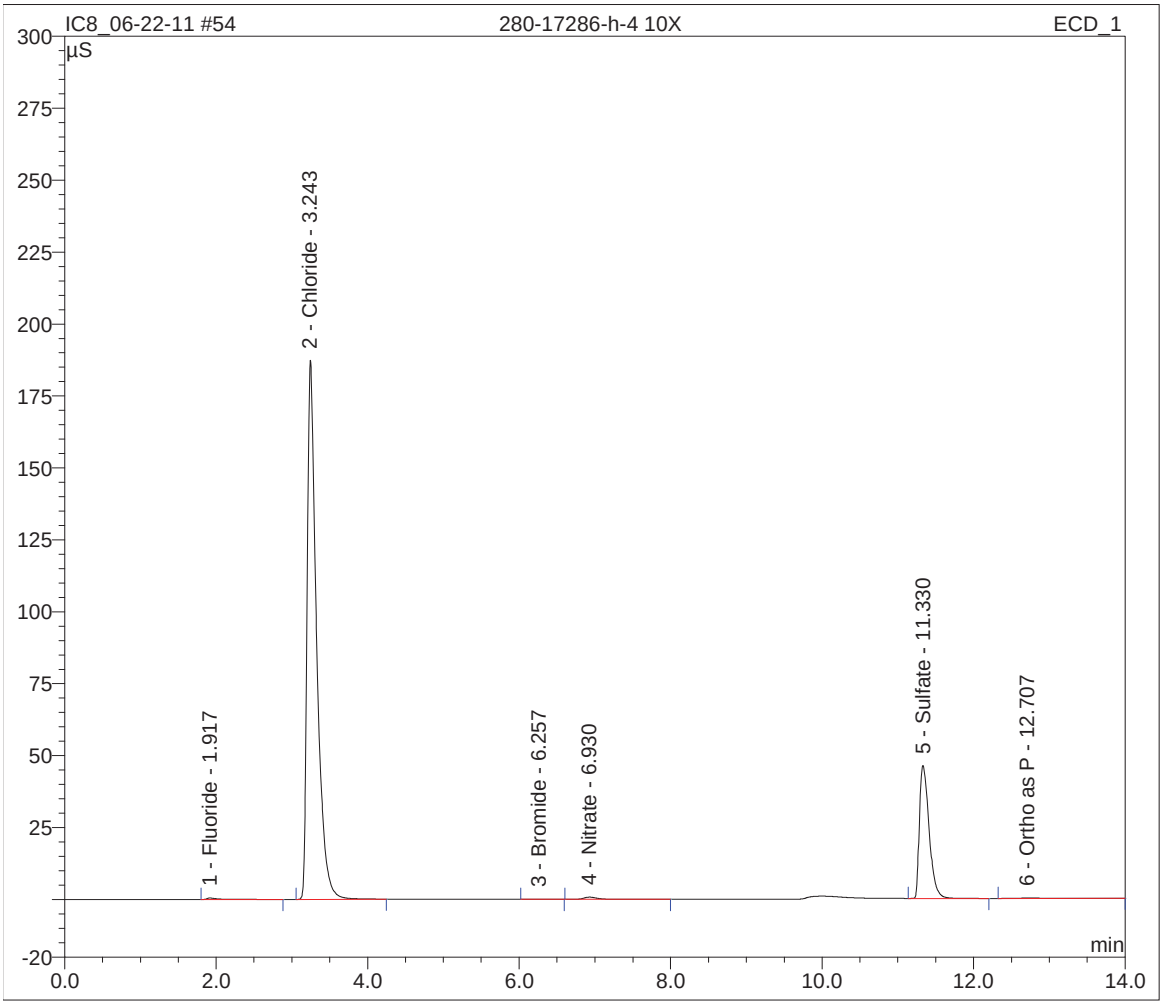
Sample Name:	**280-17286-h-3 10X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 22:41**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.011	0.063	0.0321
2	3.25	Chloride	BMB	8.499	60.864	353.8470
3	6.26	Bromide	BMB	0.005	0.029	0.6718
4	6.93	Nitrate	BMB	0.279	1.357	4.5386
5	11.39	Sulfate	BMB	1.273	11.680	68.5679
6	12.71	Ortho as P	BMB	0.087	0.165	-1.9509
		TOTAL:		10.15	74.16	425.71



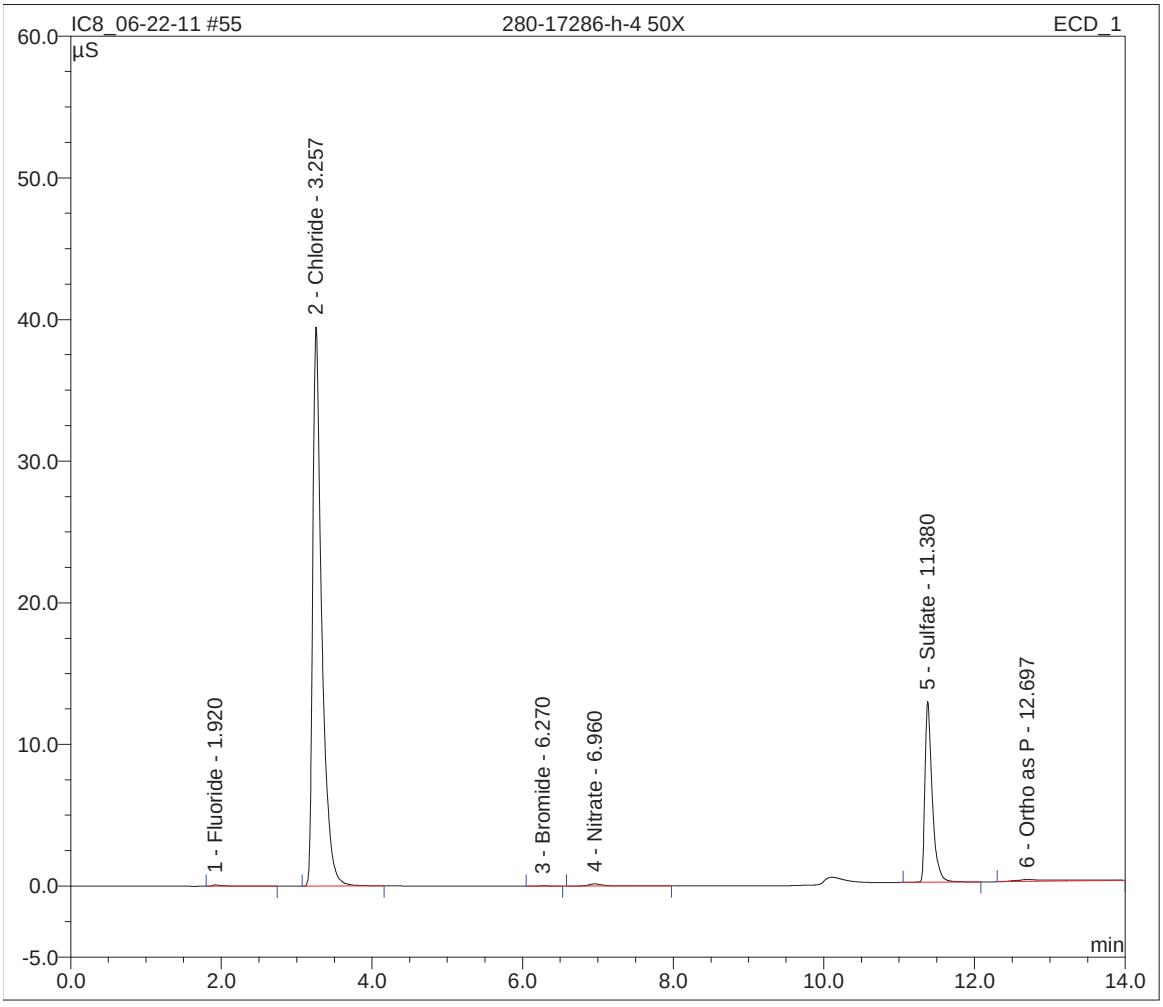
Sample Name:	**280-17286-h-4 10X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 22:57**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.074	0.498	1.5887
2	3.24	Chloride	BMB	27.251	187.293	1135.3557
3	6.26	Bromide	BMB	0.015	0.086	1.7161
4	6.93	Nitrate	BMB	0.160	0.773	2.6021
5	11.33	Sulfate	BMB	6.851	46.160	372.2246
6	12.71	Ortho as P	BMB	0.080	0.153	-2.1930
		TOTAL:		34.43	234.96	1511.29



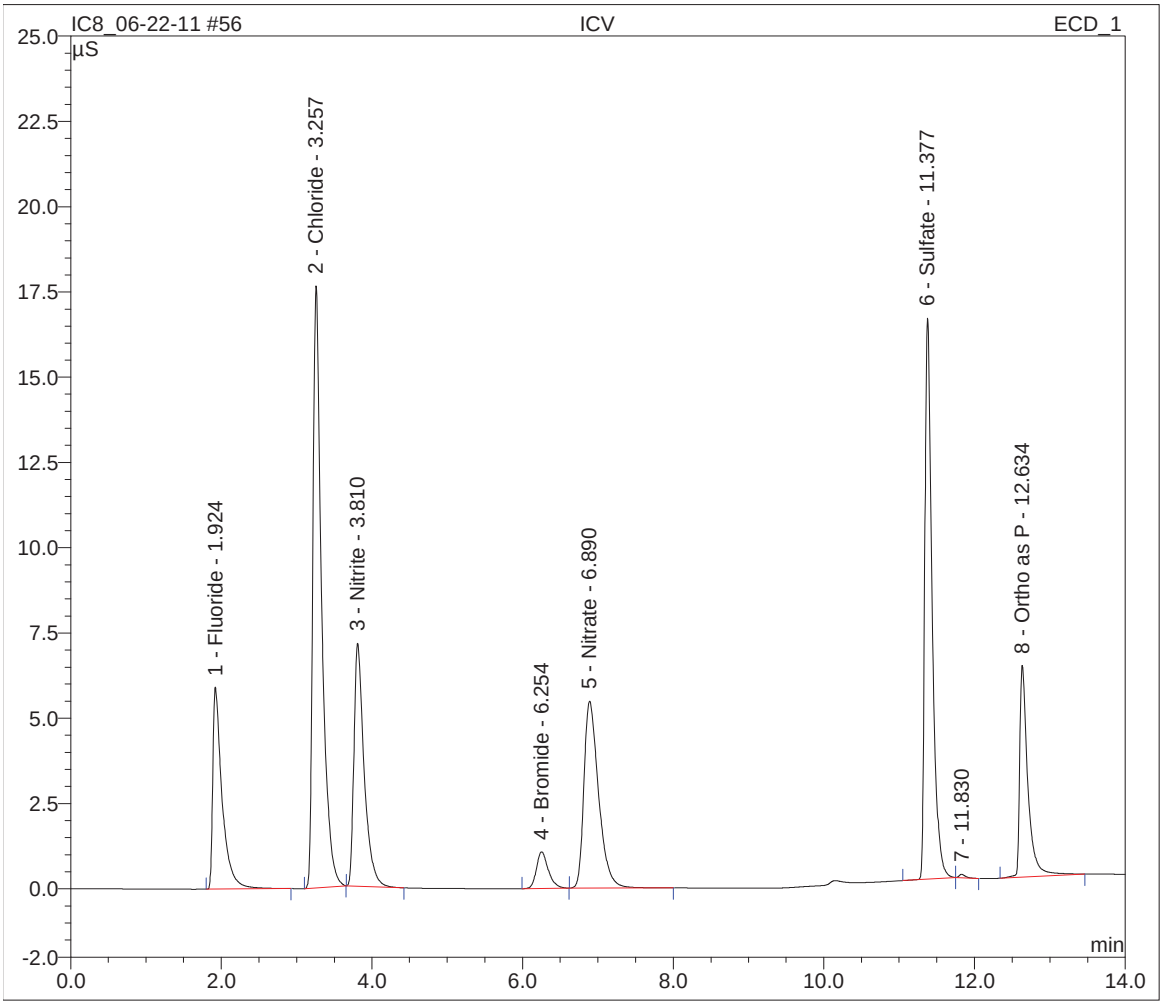
Sample Name:	**280-17286-h-4 50X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**50.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 23:14**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.014	0.091	0.5702
2	3.26	Chloride	BMB	5.496	39.476	1143.4670
3	6.27	Bromide	BMB	0.003	0.016	2.2230
4	6.96	Nitrate	BMB	0.034	0.146	2.7324
5	11.38	Sulfate	BMB	1.425	12.745	384.2165
6	12.70	Ortho as P	BMB	0.086	0.140	-10.0303
		TOTAL:		7.06	52.61	1523.18



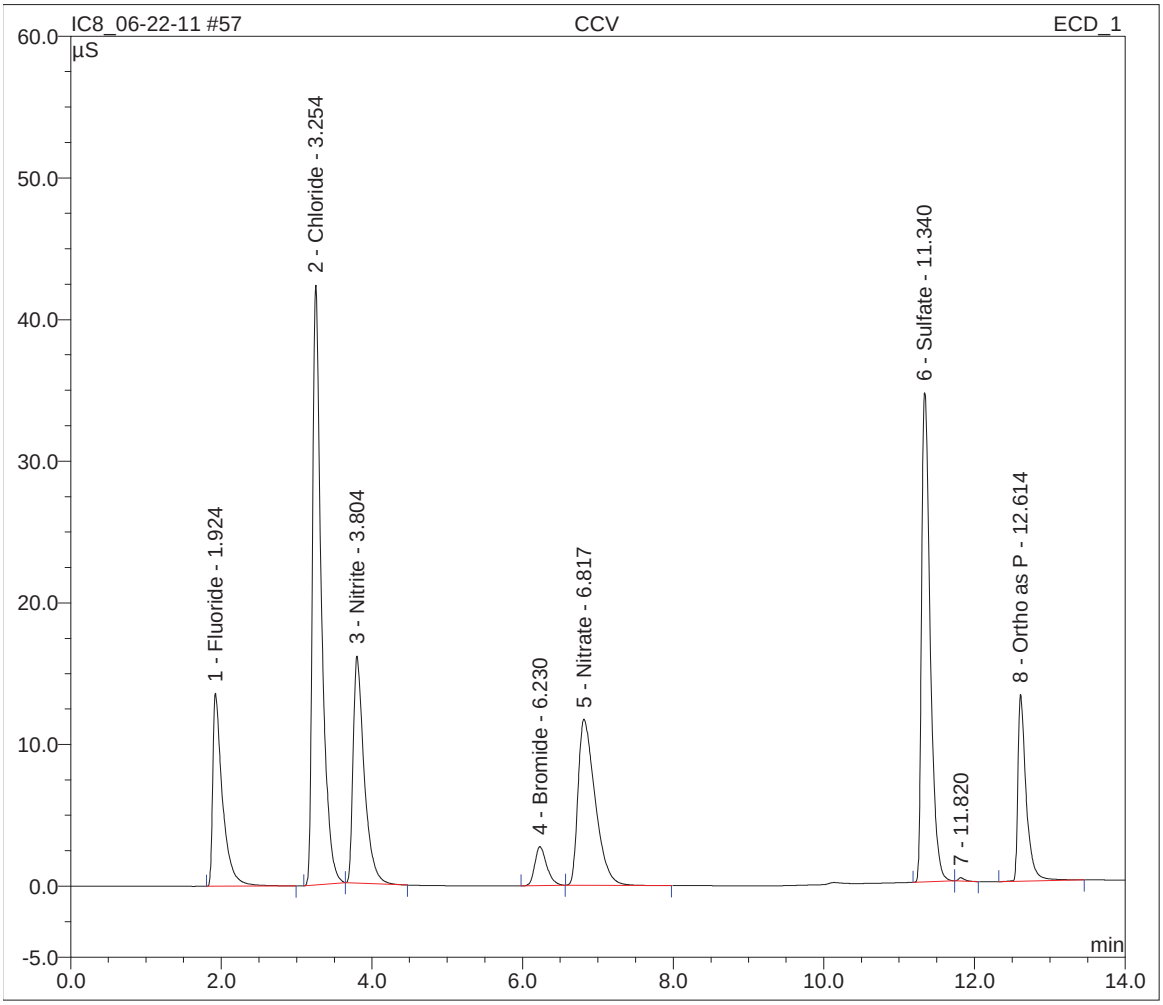
Sample Name:	**ICV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 23:31**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.851	5.912	2.0668
2	3.26	Chloride	BMB	2.394	17.657	9.9412
3	3.81	Nitrite	BMB	1.110	7.126	2.0735
4	6.25	Bromide	BMB	0.194	1.070	1.9588
5	6.89	Nitrate	BMB	1.230	5.477	2.0049
6	11.38	Sulfate	BMb	1.866	16.455	10.0843
8	12.63	Ortho as P	BMB	0.784	6.210	2.0960
		TOTAL:		8.43	59.91	30.23



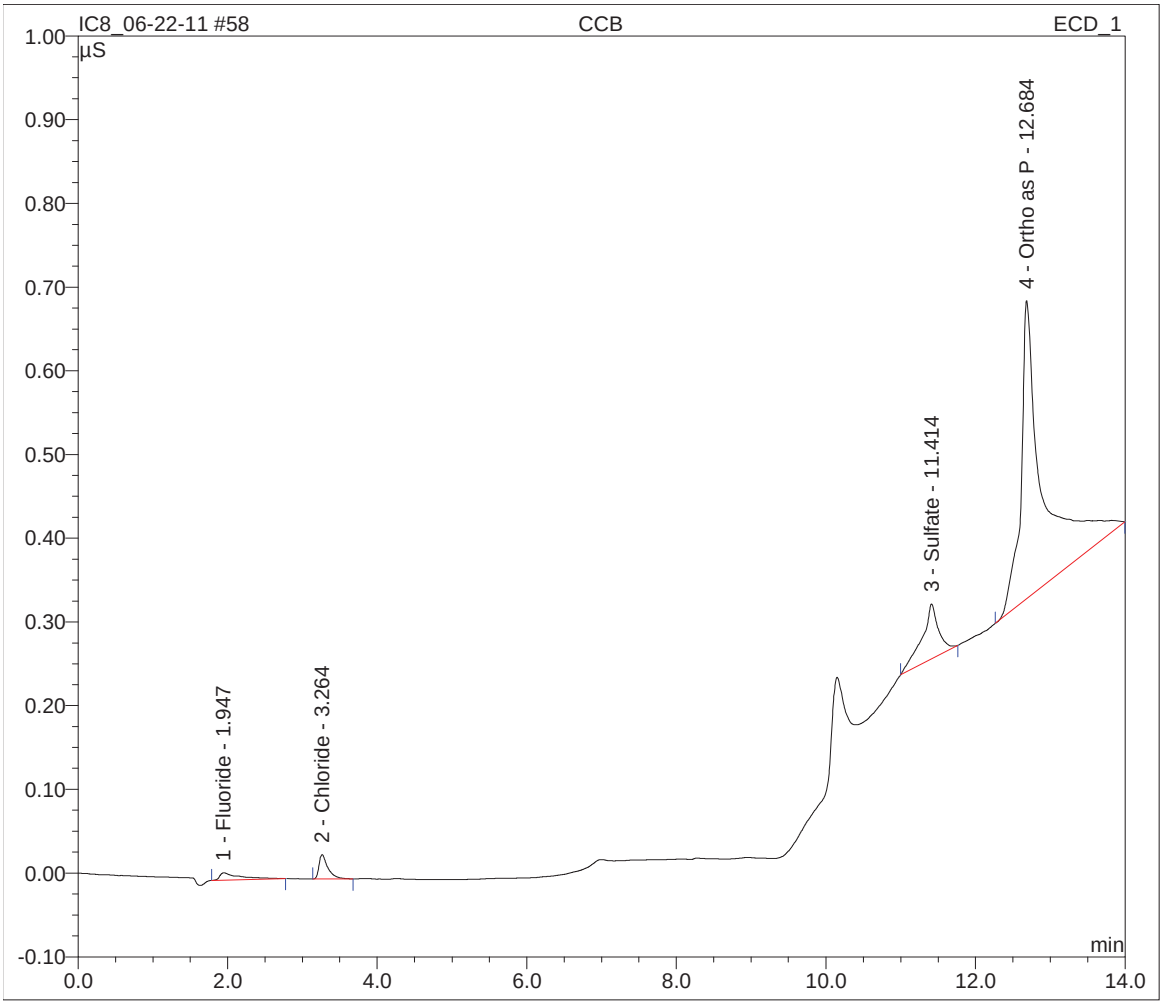
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 23:48**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.042	13.612	4.9938
2	3.25	Chloride	BMb	5.830	42.338	24.2625
3	3.80	Nitrite	bMB	2.720	16.027	5.1116
4	6.23	Bromide	BMB	0.503	2.751	5.0381
5	6.82	Nitrate	BMB	3.071	11.712	5.0053
6	11.34	Sulfate	BMb	4.611	34.535	25.0295
8	12.61	Ortho as P	BMB	1.682	13.171	5.0525
		TOTAL:		20.46	134.15	74.49



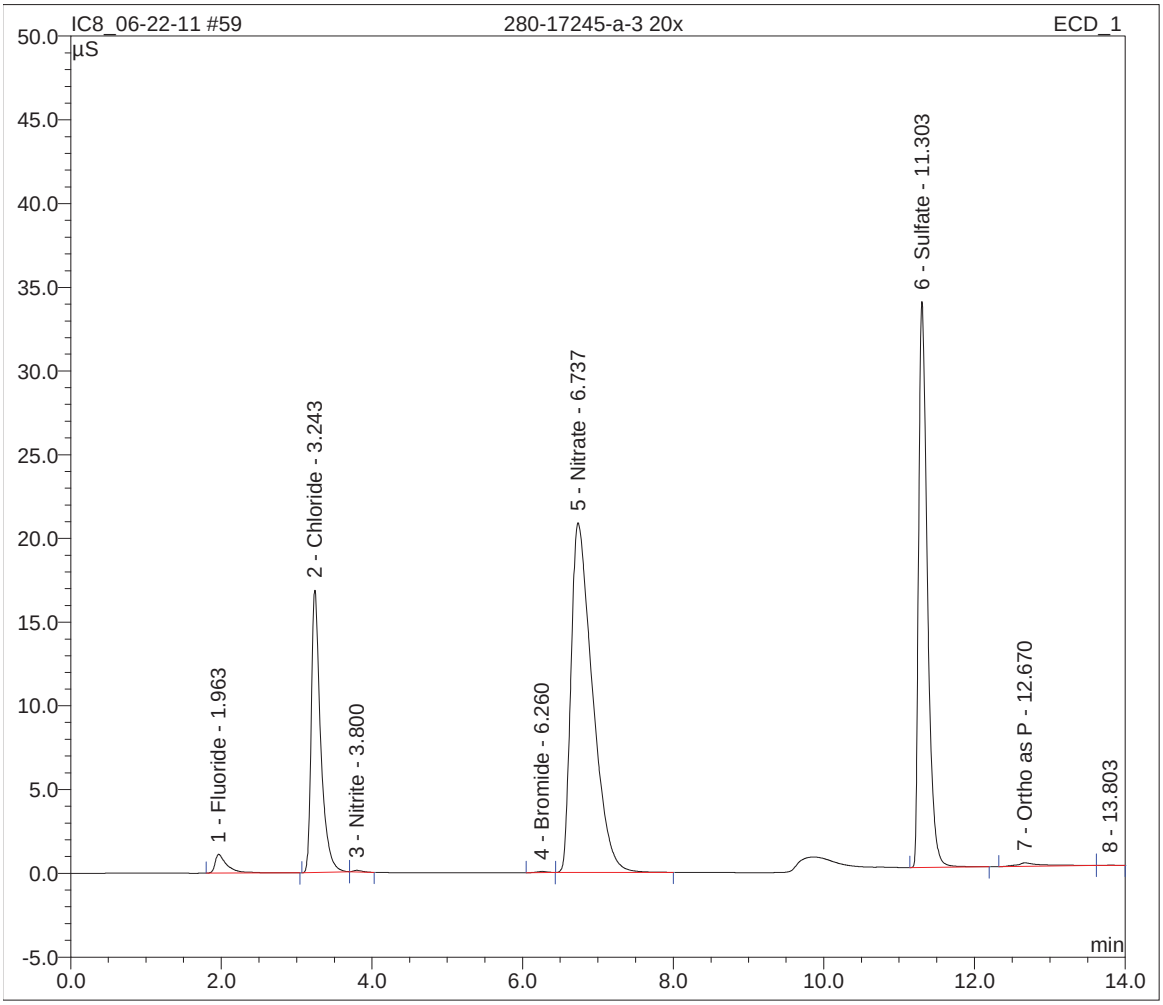
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**23.06.11 00:05**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	0.003	0.009	-0.0173
2	3.26	Chloride	BMB	0.004	0.029	-0.0188
3	11.41	Sulfate	BMB	0.017	0.065	0.0194
4	12.68	Ortho as P	BMB	0.123	0.356	-0.0785
TOTAL:				0.15	0.46	-0.10



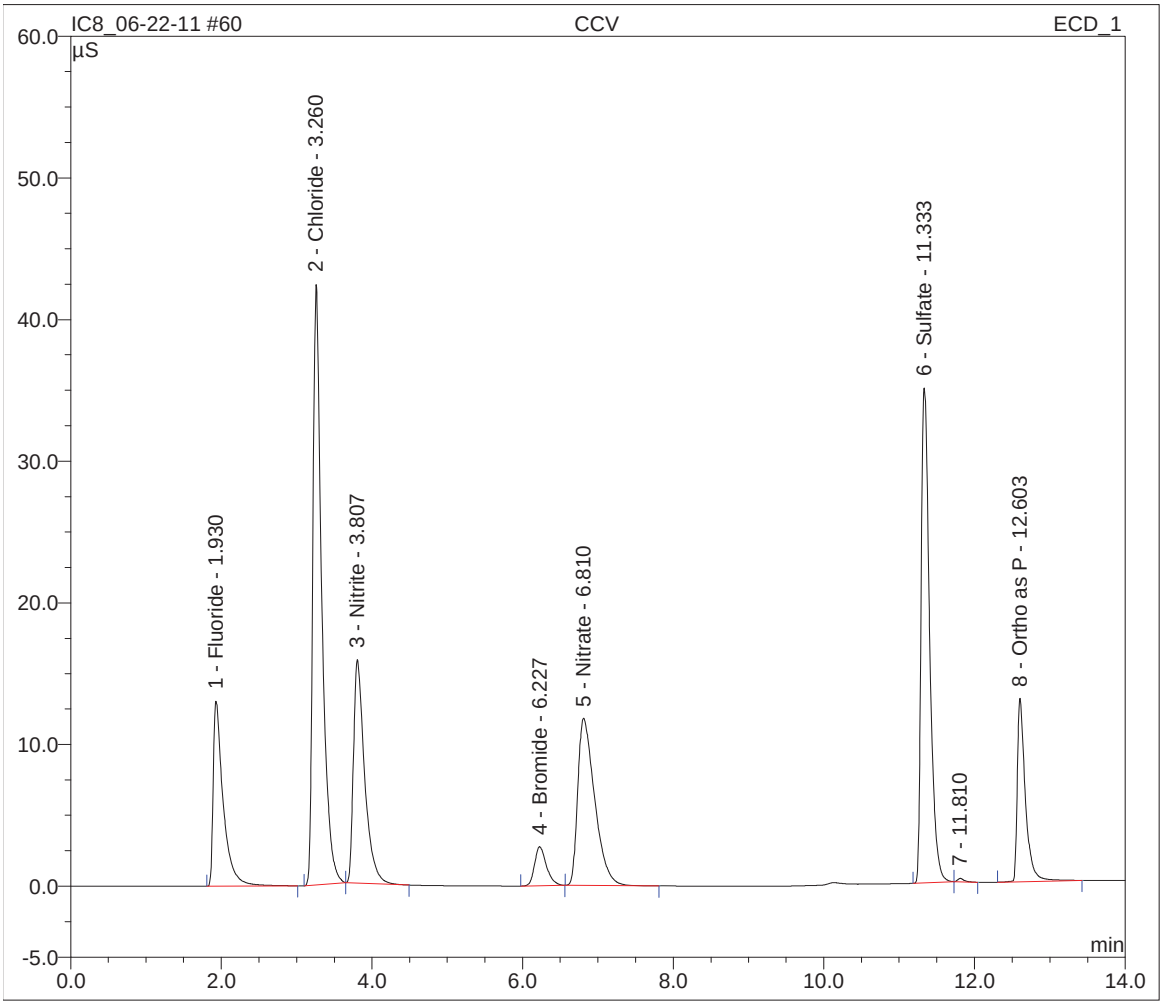
Sample Name:	**280-17245-a-3 20x**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**20.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**23.06.11 07:15**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.96	Fluoride	BMB	0.207	1.121	9.6853
2	3.24	Chloride	BMb	2.418	16.865	200.8659
3	3.80	Nitrite	bMB	0.012	0.095	-0.0093
4	6.26	Bromide	BMB	0.011	0.064	2.4648
5	6.74	Nitrate	BMB	6.861	20.886	223.6273
6	11.30	Sulfate	BMB	4.587	33.805	497.9387
7	12.67	Ortho as P	BMB	0.081	0.208	-4.3511
		TOTAL:		14.18	73.04	930.22



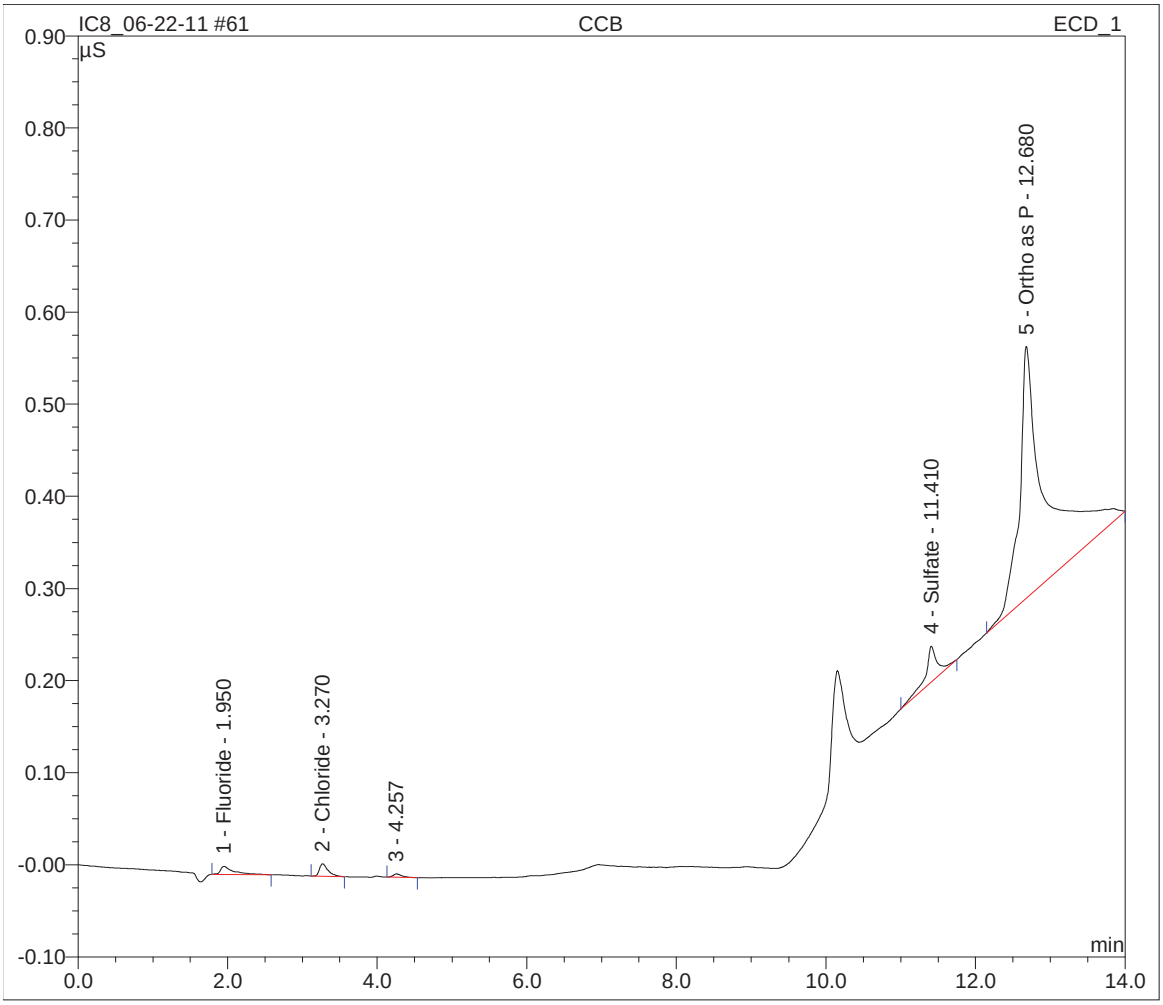
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**23.06.11 07:32**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.93	Fluoride	BMB	2.008	13.053	4.9089
2	3.26	Chloride	BMb	5.829	42.394	24.2569
3	3.81	Nitrite	bMB	2.699	15.774	5.0722
4	6.23	Bromide	BMB	0.501	2.759	5.0226
5	6.81	Nitrate	BMB	3.064	11.794	4.9934
6	11.33	Sulfate	BMb	4.613	34.922	25.0410
8	12.60	Ortho as P	BMB	1.614	12.937	4.8282
		TOTAL:		20.33	133.63	74.12



Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**23.06.11 07:49**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	0.002	0.009	-0.0196
2	3.27	Chloride	BMB	0.002	0.014	-0.0279
4	11.41	Sulfate	BMB	0.007	0.039	-0.0359
5	12.68	Ortho as P	BMB	0.112	0.273	-0.1149
		TOTAL:		0.12	0.33	-0.20



Wet Chemistry Data Review Checklist
For Tests with Calibration Curves

Test Name/ Method #: IC **SOP #** WC # 0020

Instrument: IC8 **Analyst:** E. Kundla **Analysis Date:** 06-22-11

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
280 - 17237, 17248	AQ		73686		-/Q4
17245, 17286	"		73687		Q4/-

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Minimum of five standards in ICAL or as specified in method?	~			✓
2. Correlation coefficient ≥ 0.995 ?	–			✓
3. Second-source ICV analyzed, and recovery within acceptance limits?	–			✓
4. ICB analyzed immediately after the ICV & results < the RL	–			✓
5. CCV analyzed after every ten samples & recovery within acceptance limits?	–			✓
6. CCB analyzed after every CCV & results < RL?	–			✓
7. Absolute value of the intercept is < ± ½ the RL?	–			✓
B. Sample Results				
1. All samples greater than highest calibration standard diluted and reanalyzed?	–			✓
2. Do associated RLs/MDLs reflect dilutions or limited sample volume?	–			✓
3. All reported results bracketed by in control CCV results?	–			✓
4. Sample analyses done within holding time?	–			✓
5. Initial pH check documented for all samples? (If Applicable)			–	✓
6. Preparation benchsheet completed and included in package?			–	✓
7. Client requirements reviewed and met?	–			✓
8. Were data manually transcribed from instrument printouts into TALS verified 100% including significant figures and correct units? (If Applicable)	–			✓
9. Do the prep and analysis dates in TALS reflect the actual dates?	–			✓
11. Raw data copies prepared, scanned, and uploaded?	–			✓
12. Manual integrations done properly and initialed and dated?	–			✓
13. STD/True Value information is updated and included?	–			✓
C. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10x blank have NCM?	–			✓
2. Method blank < ½ RL or NCM provided?	–			✓
3. LCS/LCSD run for batch and within QC limits?	–			✓
4. MS/MSD run at required frequency and within limits or NCM written?	–			✓
5. DUP run at required frequency and RPD within acceptance limits or NCM written?	–			✓

Analyst: Ellmaf **Date:** 06-24-11

2nd Level Reviewer : D.b **Date:** 06-27-11

Title: Temporary sequence for manual data acquisition
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11
Timebase: ICS-8 Created: 6/22/2011 9:39:41 AM by wetchemd
#Samples: 62 Last Update: 6/24/2011 8:26:17 AM by wetchemd

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
1	RT CHECK	Unknown	118	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 12:09:10 PM	1.0000
2	cal1	Standard	78	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 12:25:55 PM	1.0000
3	cal2	Standard	79	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 12:42:41 PM	1.0000
4	cal3	Standard	77	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 12:59:27 PM	1.0000
5	cal4	Standard	79	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 1:16:12 PM	1.0000
6	cal5	Standard	4	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 1:32:58 PM	1.0000
7	cal6	Standard	4	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 1:49:44 PM	1.0000
8	BLK	Unknown	6	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 2:06:30 PM	1.0000
9	ICV STD #00508	Unknown	126	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 2:23:18 PM	1.0000
10	ICB	Unknown	126	10.0	7 Anion	7 ANION AS11	Finished	6/20/2011 2:40:12 PM	1.0000
11	ICV STD #00510	Unknown	128	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 9:22:28 AM	1.0000
12	ICB	Unknown	127	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 9:59:54 AM	1.0000
13	MRL	Unknown	124	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:16:42 AM	1.0000
14	LCS STD#00510	Unknown	119	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:33:31 AM	1.0000
15	LCSD	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:50:19 AM	1.0000
16	MB	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 11:07:06 AM	1.0000
17	280-17237-d-1	Unknown	119	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 11:56:48 AM	1.0000
18	280-17237-d-2	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 12:13:36 PM	1.0000
19	280-17237-d-3	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 12:30:24 PM	1.0000
20	280-17237-d-4	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 12:47:12 PM	1.0000
21	280-17237-d-5	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 1:04:01 PM	1.0000
22	280-17237-d-6	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 1:20:49 PM	1.0000
23	280-17237-d-7	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 1:37:37 PM	1.0000
24	DU 280-17237-d-7	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 1:54:26 PM	1.0000
25	280-17237-d-8	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 2:11:14 PM	1.0000
26	280-17248-a-1	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 2:28:02 PM	1.0000
27	CCV	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 2:44:50 PM	1.0000
28	CCB	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 3:01:39 PM	1.0000
29	280-17248-b-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 3:18:27 PM	1.0000
30	DU 280-17248-b-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 3:35:15 PM	1.0000
31	MS 280-17248-b-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 3:52:03 PM	1.0000
32	MSD 280-17248-b-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 4:08:51 PM	1.0000
33	280-17245-b-1	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 4:25:40 PM	1.0000
34	280-17245-b-2	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 4:42:28 PM	1.0000
35	280-17245-a-3 2X	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 4:59:15 PM	1.0000
36	280-17248-b-2 5X	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 5:16:04 PM	1.0000
37	280-17286-h-1 2X	Unknown	120	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 6:12:14 PM	1.0000
38	280-17286-v-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 6:29:02 PM	1.0000
39	CCV	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 6:45:50 PM	1.0000
40	CCB	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 7:02:38 PM	1.0000
41	280-17286-h-3	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 7:19:27 PM	1.0000
42	280-17286-h-4 2X	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 7:36:15 PM	1.0000
43	DU 280-17286-v-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 7:53:03 PM	1.0000
44	MS 280-17286-v-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 8:09:51 PM	1.0000

Title: Temporary sequence for manual data acquisition
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11
Timebase: ICS-8 Created: 6/22/2011 9:39:41 AM by wetchemd
#Samples: 62 Last Update: 6/24/2011 8:26:17 AM by wetchemd

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
1	RT CHECK	1.0000	1.0000	100		EMK
2	cal1	1.0000	1.0000	101		EMK
3	cal2	1.0000	1.0000	102		EMK
4	cal3	1.0000	1.0000	103		EMK
5	cal4	1.0000	1.0000	104		EMK
6	cal5	1.0000	1.0000	105		EMK
7	cal6	1.0000	1.0000	106		EMK
8	BLK	1.0000	1.0000	107		EMK
9	ICV STD #00508	1.0000	1.0000	108		EMK
10	ICB	1.0000	1.0000	109		EMK
11	ICV STD #00510	1.0000	1.0000	110		EMK
12	ICB	1.0000	1.0000	111		EMK
13	MRL	1.0000	1.0000	112		EMK
14	LCS STD#00510	1.0000	1.0000	113		EMK
15	LCSD	1.0000	1.0000	114		EMK
16	MB	1.0000	1.0000	115		EMK
17	280-17237-d-1	1.0000	1.0000	116		EMK
18	280-17237-d-2	1.0000	1.0000	117		EMK
19	280-17237-d-3	1.0000	1.0000	118		EMK
20	280-17237-d-4	1.0000	1.0000	119		EMK
21	280-17237-d-5	1.0000	1.0000	120		EMK
22	280-17237-d-6	1.0000	1.0000	121		EMK
23	280-17237-d-7	1.0000	1.0000	122		EMK
24	DU 280-17237-d-7	1.0000	1.0000	123		EMK
25	280-17237-d-8	1.0000	1.0000	124		EMK
26	280-17248-a-1	1.0000	1.0000	125		EMK
27	CCV	1.0000	1.0000	126		EMK
28	CCB	1.0000	1.0000	127		EMK
29	280-17248-b-2	1.0000	1.0000	128		EMK
30	DU 280-17248-b-2	1.0000	1.0000	129		EMK
31	MS 280-17248-b-2	1.0000	1.0000	130		EMK
32	MSD 280-17248-b-2	1.0000	1.0000	131		EMK
33	280-17245-b-1	1.0000	1.0000	132		EMK
34	280-17245-b-2	1.0000	1.0000	133		EMK
35	280-17245-a-3 2X	2.0000	1.0000	134		EMK
36	280-17248-b-2 5X	5.0000	1.0000	135		EMK
37	280-17286-h-1 2X	2.0000	1.0000	136		EMK
38	280-17286-v-2	1.0000	1.0000	137		EMK
39	CCV	1.0000	1.0000	138		EMK
40	CCB	1.0000	1.0000	139		EMK
41	280-17286-h-3	1.0000	1.0000	140		EMK
42	280-17286-h-4 2X	2.0000	1.0000	141		EMK
43	DU 280-17286-v-2	1.0000	1.0000	142		EMK
44	MS 280-17286-v-2	1.0000	1.0000	143		EMK

Title: Temporary sequence for manual data acquisition
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11
Timebase: ICS-8 Created: 6/22/2011 9:39:41 AM by wetchemd
#Samples: 62 Last Update: 6/24/2011 8:26:17 AM by wetchemd

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
45	MSD 280-17286-v-2	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 8:26:39 PM	1.0000
46	280-17245-a-3 50X	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 8:43:28 PM	1.0000
47	280-17248-a-1 5X	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 9:00:16 PM	1.0000
48	280-17286-h-1 10X	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 9:17:04 PM	1.0000
49	280-17286-h-1 50X	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 9:33:53 PM	1.0000
50	280-17286-h-3 5X	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 9:50:41 PM	1.0000
51	CCV	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:07:29 PM	1.0000
52	CCB	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:24:17 PM	1.0000
53	280-17286-h-3 10X	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:41:05 PM	1.0000
54	280-17286-h-4 10X	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 10:57:53 PM	1.0000
55	280-17286-h-4 50X	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 11:14:41 PM	1.0000
56	ICV	Unknown	123	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 11:31:29 PM	1.0000
57	CCV	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/22/2011 11:48:18 PM	1.0000
58	CCB	Unknown	121	10.0	7 Anion	7 ANION AS11	Finished	6/23/2011 12:05:06 AM	1.0000
59	280-17245-a-3 20x	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/23/2011 7:15:31 AM	1.0000
60	CCV	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/23/2011 7:32:19 AM	1.0000
61	CCB	Unknown	122	10.0	7 Anion	7 ANION AS11	Finished	6/23/2011 7:49:07 AM	1.0000
62	END	Unknown	410	10.0	stop	7 ANION AS11	Finished	6/23/2011 12:21:54 AM	1.0000

Title: Temporary sequence for manual data acquisition
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11
Timebase: ICS-8 Created: 6/22/2011 9:39:41 AM by wetchemd
#Samples: 62 Last Update: 6/24/2011 8:26:17 AM by wetchemd

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
45	MSD 280-17286-v-2	1.0000	1.0000	144		EMK
46	280-17245-a-3 50X	50.0000	1.0000	145		EMK
47	280-17248-a-1 5X	5.0000	1.0000	146		EMK
48	280-17286-h-1 10X	10.0000	1.0000	147		EMK
49	280-17286-h-1 50X	50.0000	1.0000	148		EMK
50	280-17286-h-3 5X	5.0000	1.0000	149		EMK
51	CCV	1.0000	1.0000	150		EMK
52	CCB	1.0000	1.0000	151		EMK
53	280-17286-h-3 10X	10.0000	1.0000	152		EMK
54	280-17286-h-4 10X	10.0000	1.0000	153		EMK
55	280-17286-h-4 50X	50.0000	1.0000	154		EMK
56	ICV	1.0000	1.0000	155		EMK
57	CCV	1.0000	1.0000	156		EMK
58	CCB	1.0000	1.0000	157		EMK
59	280-17245-a-3 20x	20.0000	1.0000	158		EMK
60	CCV	1.0000	1.0000	159		EMK
61	CCB	1.0000	1.0000	160		EMK
62	END	1.0000	1.0000	161		EMK

Title:
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Created: 3/20/2008 10:44:59 AM by kudlae
Timebase: ICS-8 Changed: 3/31/2008 10:13:48 AM by kudlae

```
           Pressure.LowerLimit =              200 [psi]
           Pressure.UpperLimit =              3000 [psi]
           %A.Equate =                        "DI H2O"
           CR_TC =                            On
           Pump_InjectValve.State             LoadPosition
           Data_Collection_Rate =             5.0 [Hz]
           CellTemperature.Nominal =          35.0 [°C]
           ColumnTemperature.Nominal =        30.0 [°C]
           Suppressor_Type =                  ASRS_4mm
           ; Pump_ECD.Hydroxide =             50.0
           ; Pump_ECD.Recommended Current =   124
           ; Pump_ECD.Carbonate =             0.0
           ; Pump_ECD.Bicarbonate =           0.0
           ; Pump_ECD.Tetraborate =           0.0
           ; Pump_ECD.Other eluent =          0.0
           Suppressor_Current =               125 [mA]
           Flow =                             1.00 [ml/min]

-2.700     Pump_ECD_Relay_1.Open              Duration=0.01
           Concentration =                    10.00 [mM]
           Curve =                            5

-2.500     Pump_ECD_Relay_1.Closed            Duration=0.01

 0.000     Autozero
           ECD_1.AcqOn
           Pump_InjectValve.InjectPosition    Duration=720.00

 7.500     Concentration =                    10.00 [mM]
           Curve =                            5

10.500     Concentration =                    40.00 [mM]
           Curve =                            5

10.600     Concentration =                    50.00 [mM]
           Curve =                            5

12.500     Concentration =                    50.00 [mM]
           Curve =                            5

12.600     Concentration =                    10.00 [mM]
           Curve =                            5

13.000     Concentration =                    10.00 [mM]
```

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Title:
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Created: 3/20/2008 10:44:59 AM by kudlae
Timebase: ICS-8 Changed: 3/31/2008 10:13:48 AM by kudlae

```
           Curve =                          5

14.000     ECD_1.AcqOff
           End
```

Chromeleon © Dionex Corporation, Version 6.80 SP3 Build 2345 (128616)

Title:
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ
Timebase: ICS-8
Created: 3/20/2008 10:44:59 AM by kudlae
Changed: 3/31/2008 10:13:48 AM by kudlae

No.	Channel	Operation	Parameters

Title: Stop
Datasource: D3YCYMF1_local Created: 3/11/2008 4:10:47 PM by Test America Labs
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ
Timebase: ICS-8 Changed: 3/11/2008 4:10:47 PM by Test America Labs

```
           ColumnTemperature =                Off
           CellTemperature.Nominal =          Off
; Pump_ECD.Hydroxide =                        50.0
; Pump_ECD.Recommended Current =              124
; Pump_ECD.Carbonate =                        0.0
; Pump_ECD.Bicarbonate =                      0.0
; Pump_ECD.Tetraborate =                      0.0
; Pump_ECD.Other eluent =                     0.0
           Pressure.LowerLimit =              200
           Pressure.UpperLimit =              3000
           %A.Equate =                        "DI H2O"
           CR_TC =                            Off
           ;LoadPosition
           Data_Collection_Rate =             5.0
           Suppressor_Type =                  ASRS_4mm
           Suppressor_Current =               124
           Suppressor_Mode =                  Off
           ECD_Total.Step =                   0.50
           ECD_Total.Average =                Off
           Channel_Pressure.Step =            0.50
           Channel_Pressure.Average =         Off

           Pump_ECD_Relay_1.Open
           Concentration =                    10.00
           Curve =                            5

           Pump_ECD_Relay_1.State             Open
           Mode =                             Off
           Flow =                             1.00

 0.000     off

           End
```

Chromeleon © Dionex Corporation, Version 6.80 SP3 Build 2345 (128616)

Title: Stop
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ
Timebase: ICS-8
Created: 3/11/2008 4:10:47 PM by Test America Labs
Changed: 3/11/2008 4:10:47 PM by Test America Labs

No.	Channel	Operation	Parameters

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Minimum Area	0.5E-3 "[Signal]*min"	All Channels
2	0.000	Sensitivity	0.8E-3 "[Signal]"	All Channels
3	0.000	Inhibit Integration	On	All Channels
4	0.000	Valley to Valley	On	All Channels
5	0.000	Fronting Sensitivity Factor	5.0	All Channels
6	0.000	Tailing Sensitivity Factor	7.0	All Channels
7	1.500	Void Volume Treatment	On	All Channels
8	1.500	Inhibit Integration	Off	All Channels
9	1.800	Void Volume Treatment	Off	All Channels
10	2.000	Maximum Width	0.75 min	All Channels
11	8.000	Inhibit Integration	On	All Channels
12	11.000	Inhibit Integration	Off	All Channels

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount BLK	Amount cal1
1	*Fluoride*	*1.900 min*	*5.000 RN*	*External*	*Area*	*XLOff*	*Auto*		*Autogenerated*	*0.000000*	*0.100000*
2	Acetate	2.600 min	3.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.100000
3	Chloride	3.300 min	5.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.500000
4	Nitrite	3.800 min	5.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.100000
5	Bromide	6.300 min	5.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.100000
6	Nitrate	6.800 min	5.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.100000
7	Sulfate	11.400 min	5.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.500000
8	Ortho as P	12.600 min	5.000 RN	External	Area	XLOff	Auto		Autogenerated	0.000000	0.100000

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Amount cal2	Amount cal3	Amount cal4	Amount cal5	Amount cal6
1	*Fluoride*	*1.900 min*	*0.500000*	*1.000000*	*4.000000*	*8.000000*	*10.000000*
2	Acetate	2.600 min	0.500000	1.000000	4.000000	8.000000	10.000000
3	Chloride	3.300 min	2.500000	5.000000	20.000000	40.000000	50.000000
4	Nitrite	3.800 min	0.500000	1.000000	4.000000	8.000000	10.000000
5	Bromide	6.300 min	0.500000	1.000000	4.000000	8.000000	10.000000
6	Nitrate	6.800 min	0.500000	1.000000	4.000000	8.000000	10.000000
7	Sulfate	11.400 min	2.500000	5.000000	20.000000	40.000000	50.000000
8	Ortho as P	12.600 min	0.500000	1.000000	4.000000	8.000000	10.000000

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Amount Table:

Dimension of Amounts: mg/L
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 7
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Left Limit	Right Limit	Group	Resp.Fact.
1	*Fluoride*	*1.900 min*	*5.000 RN*	*External*	*Area*	*XLOff*	*Auto*	*0.000*	*0.000*		*1.000000*
2	Acetate	2.600 min	3.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000
3	Chloride	3.300 min	5.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000
4	Nitrite	3.800 min	5.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000
5	Bromide	6.300 min	5.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000
6	Nitrate	6.800 min	5.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000
7	Sulfate	11.400 min	5.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000
8	Ortho as P	12.600 min	5.000 RN	External	Area	XLOff	Auto	0.000	0.000		1.000000

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Amount Table:

Dimension of Amounts: mg/L
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 7
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Comment
1	*Fluoride*	*1.900 min*	*Autogenerated*
2	Acetate	2.600 min	Autogenerated
3	Chloride	3.300 min	Autogenerated
4	Nitrite	3.800 min	Autogenerated
5	Bromide	6.300 min	Autogenerated
6	Nitrate	6.800 min	Autogenerated
7	Sulfate	11.400 min	Autogenerated
8	Ortho as P	12.600 min	Autogenerated

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	cal1	2	78	10.0	1.0000	1.0000	1.0000	6/20/2011 12:2	EMK
2	☒	cal2	3	79	10.0	1.0000	1.0000	1.0000	6/20/2011 12:4	EMK
3	☒	cal3	4	77	10.0	1.0000	1.0000	1.0000	6/20/2011 12:5	EMK
4	☒	cal4	5	79	10.0	1.0000	1.0000	1.0000	6/20/2011 1:16:	EMK
5	☒	cal5	6	4	10.0	1.0000	1.0000	1.0000	6/20/2011 1:32:	EMK
6	☒	cal6	7	4	10.0	1.0000	1.0000	1.0000	6/20/2011 1:49:	EMK

Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Calib.	Comment
1	☒	cal1	Ok	
2	☒	cal2	Ok	
3	☒	cal3	Ok	
4	☒	cal4	Ok	
5	☒	cal5	Ok	
6	☒	cal6	Ok	

Title: 9056
Datasource: D3YCYMF1_local
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ
Created: 7/13/2004 10:19:05 PM by COONL
Last Update: 6/20/2011 12:00:25 PM by wetchemd

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Channel	Peak	N.A.
1									

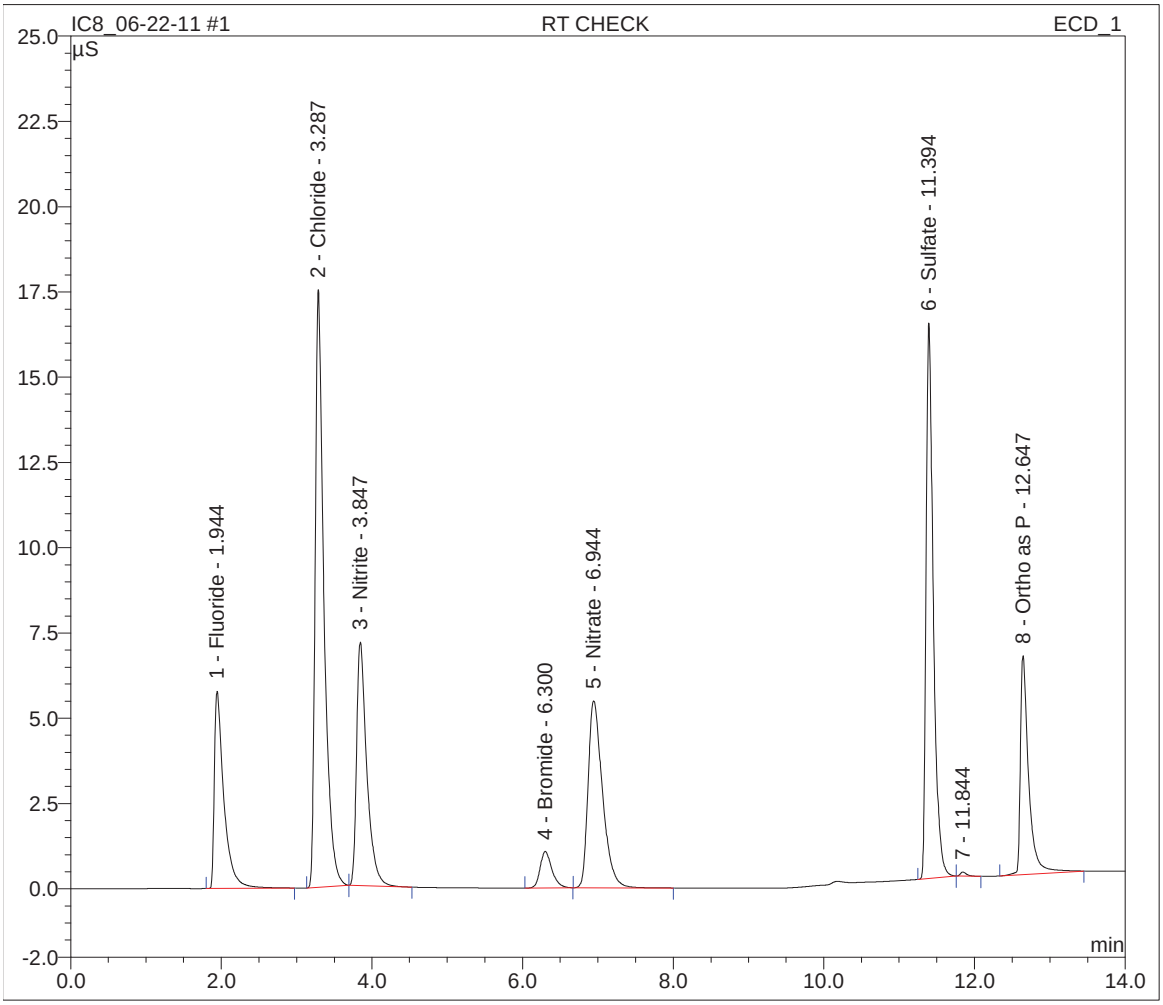
Title: 9056
Datasource: D3YCYMF1_local Created: 7/13/2004 10:19:05 PM by COONL
Location: ICS-8\data\2011\06 11\IC8_06-22-11.SEQ Last Update: 6/20/2011 12:00:25 PM by wetchemd

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message	Rounding
1					

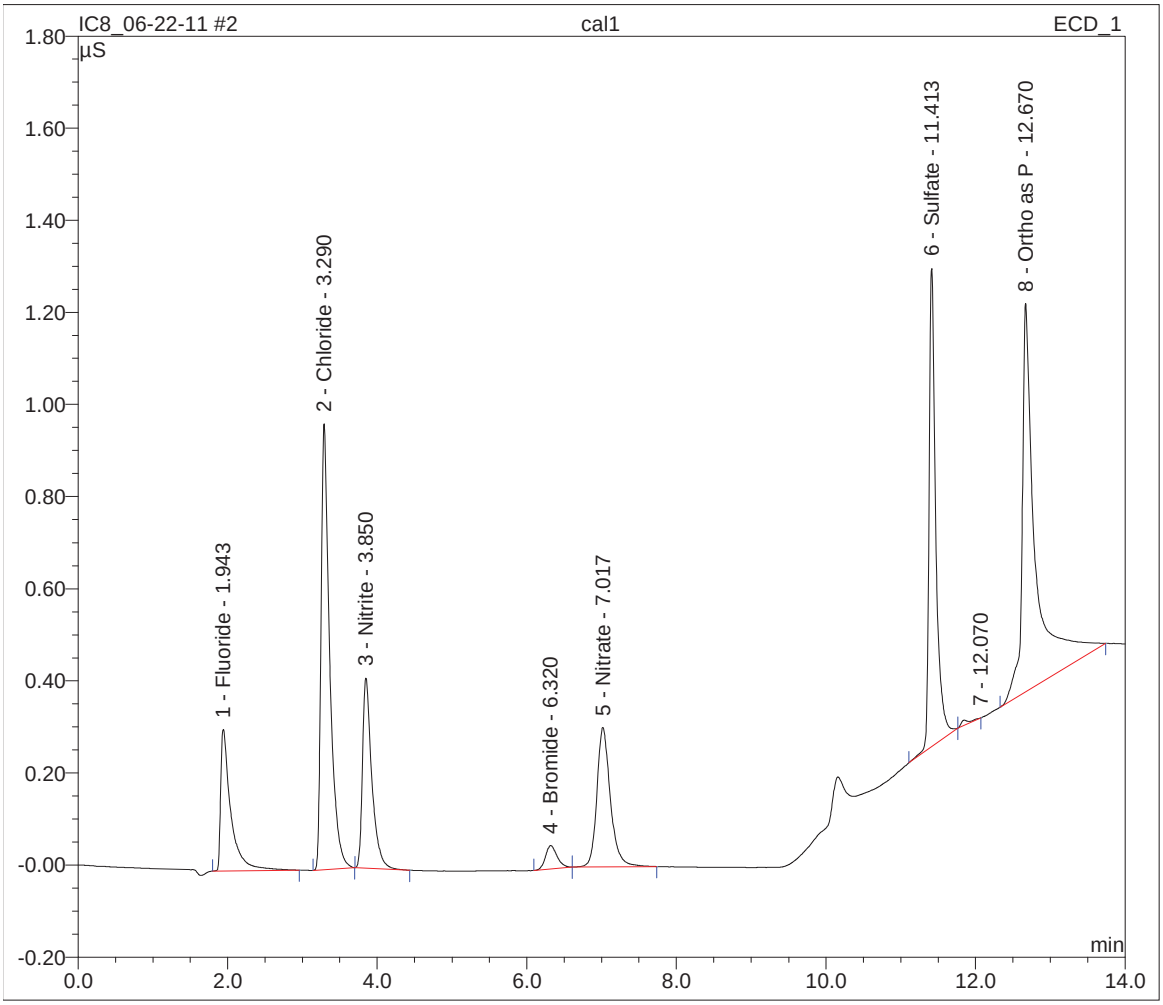
Sample Name:	**RT CHECK**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 12:09**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.846	5.779	2.0549
2	3.29	Chloride	BMB	2.377	17.522	9.8698
3	3.85	Nitrite	bMB	1.118	7.144	2.0879
4	6.30	Bromide	BMB	0.193	1.072	1.9452
5	6.94	Nitrate	BMB	1.213	5.472	1.9761
6	11.39	Sulfate	BMb	1.821	16.292	9.8399
8	12.65	Ortho as P	BMB	0.812	6.421	2.1896
		TOTAL:		8.38	59.70	29.96



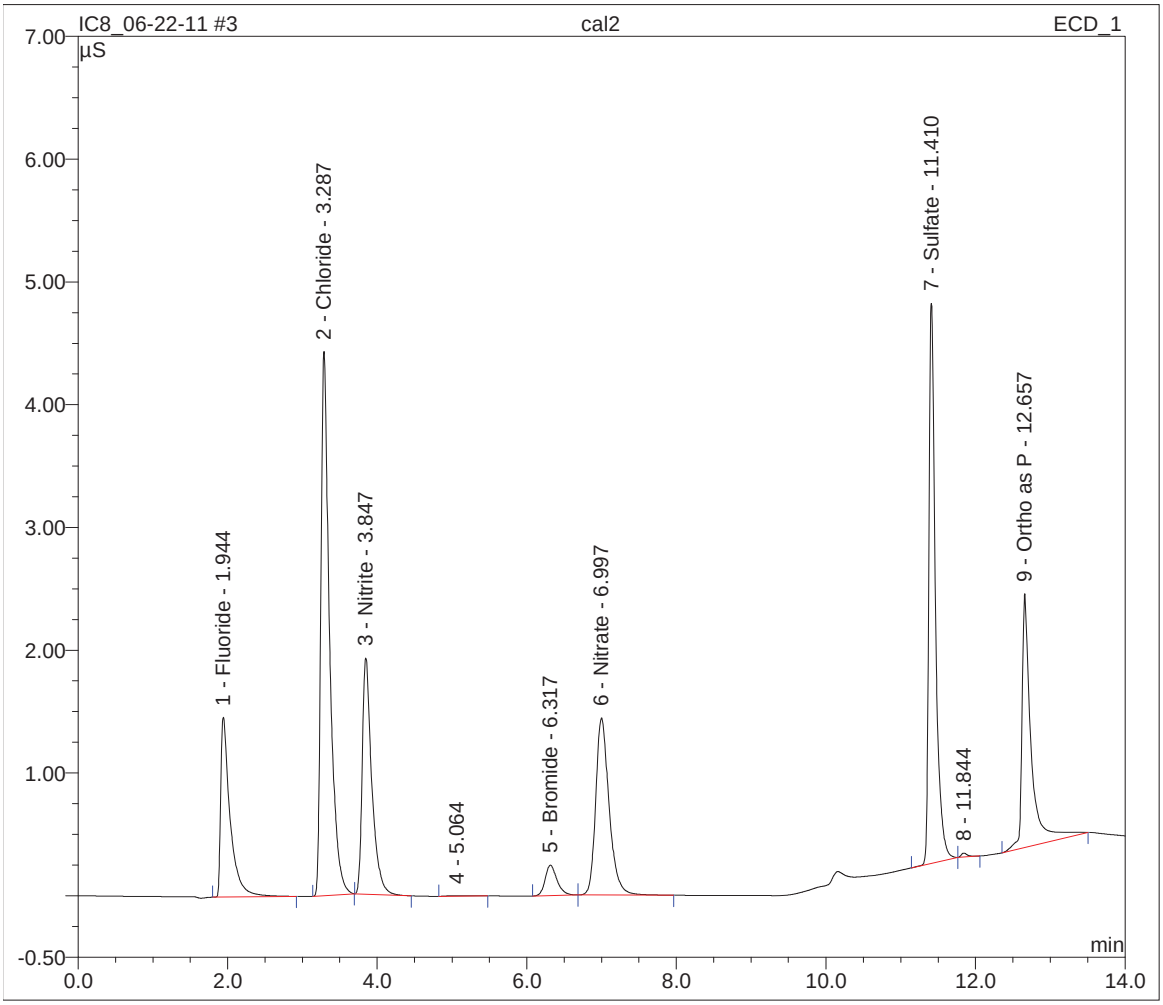
Sample Name:	**cal1**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 12:25**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.048	0.307	0.0944
2	3.29	Chloride	BMB	0.130	0.969	0.5064
3	3.85	Nitrite	BMB	0.060	0.413	0.0898
4	6.32	Bromide	BMB	0.009	0.051	0.1087
5	7.02	Nitrate	bMB	0.063	0.303	0.1029
6	11.41	Sulfate	BMB	0.107	1.039	0.5103
8	12.67	Ortho as P	BMB	0.176	0.844	0.0975
		TOTAL:		0.59	3.93	1.51



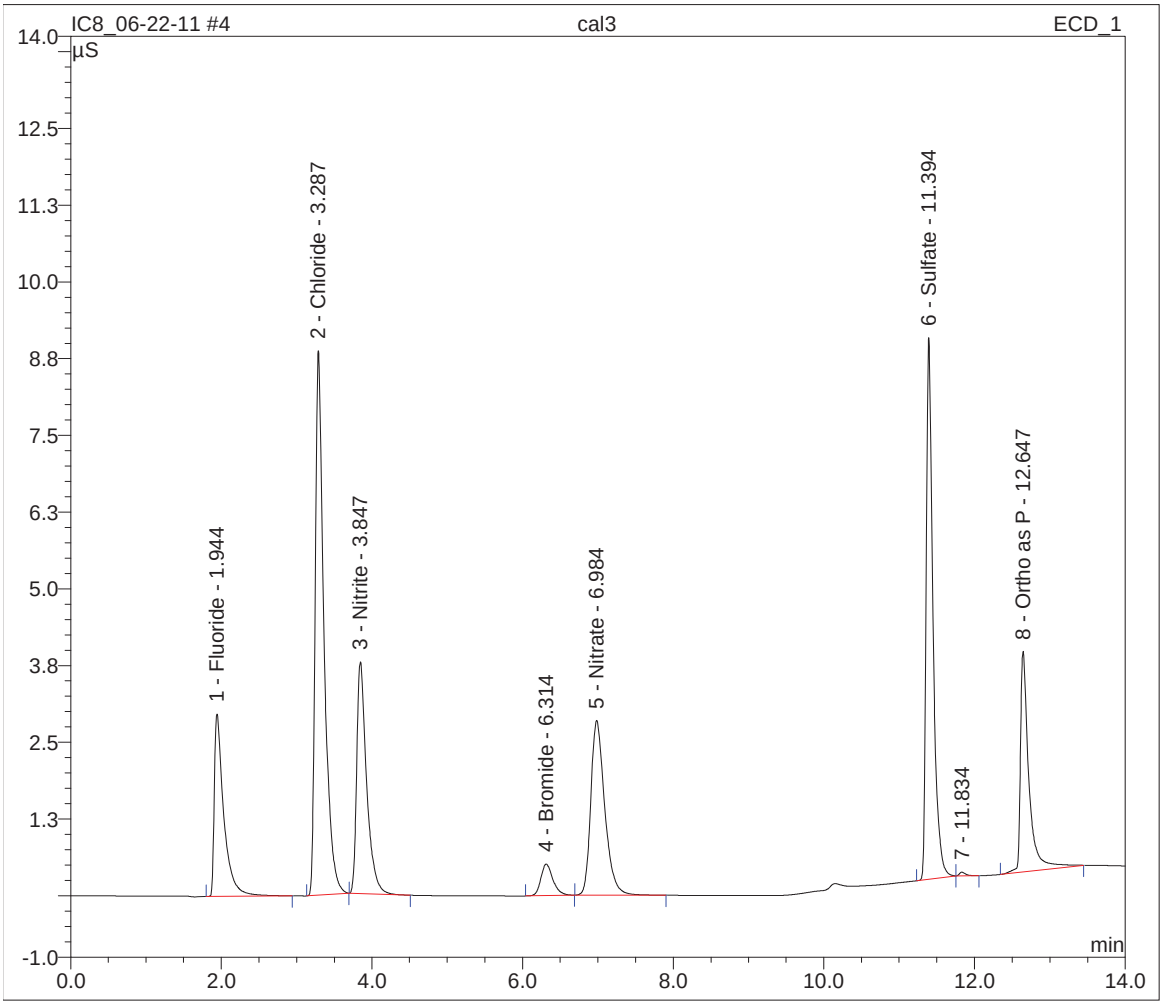
Sample Name:	**cal2**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 12:42**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.214	1.463	0.5011
2	3.29	Chloride	BMB	0.600	4.432	2.4659
3	3.85	Nitrite	BMB	0.284	1.925	0.5140
5	6.32	Bromide	BMb	0.045	0.248	0.4701
6	7.00	Nitrate	bMB	0.299	1.441	0.4870
7	11.41	Sulfate	BMb	0.464	4.562	2.4508
9	12.66	Ortho as P	BMB	0.292	2.067	0.4788
		TOTAL:		2.20	16.14	7.37



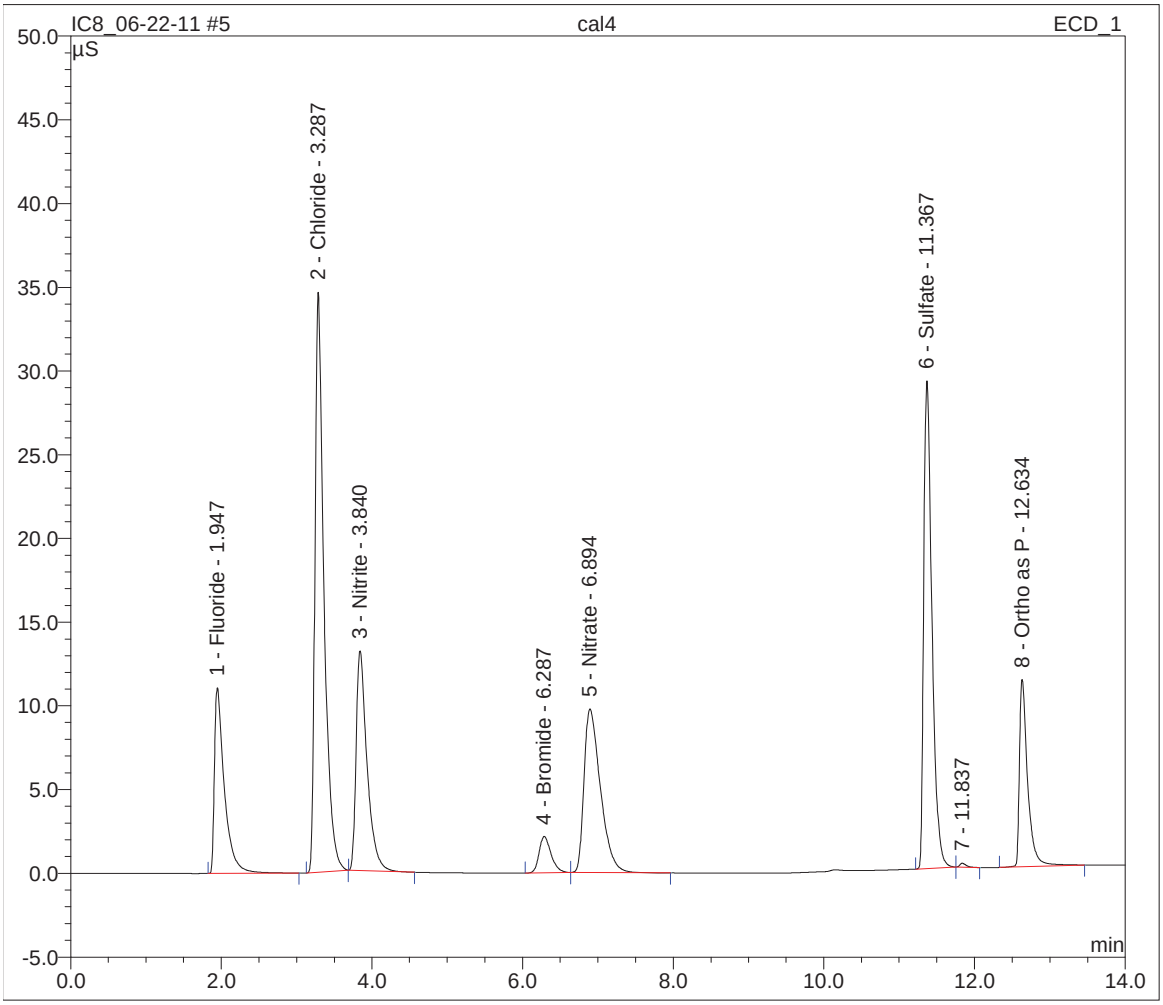
Sample Name:	**cal3**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 12:59**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.432	2.969	1.0385
2	3.29	Chloride	BMB	1.208	8.865	4.9981
3	3.85	Nitrite	BMB	0.573	3.779	1.0591
4	6.31	Bromide	BMB	0.095	0.515	0.9642
5	6.98	Nitrate	BMB	0.610	2.844	0.9936
6	11.39	Sulfate	BMB	0.929	8.825	4.9829
8	12.65	Ortho as P	BMB	0.465	3.595	1.0460
		TOTAL:		4.31	31.39	15.08



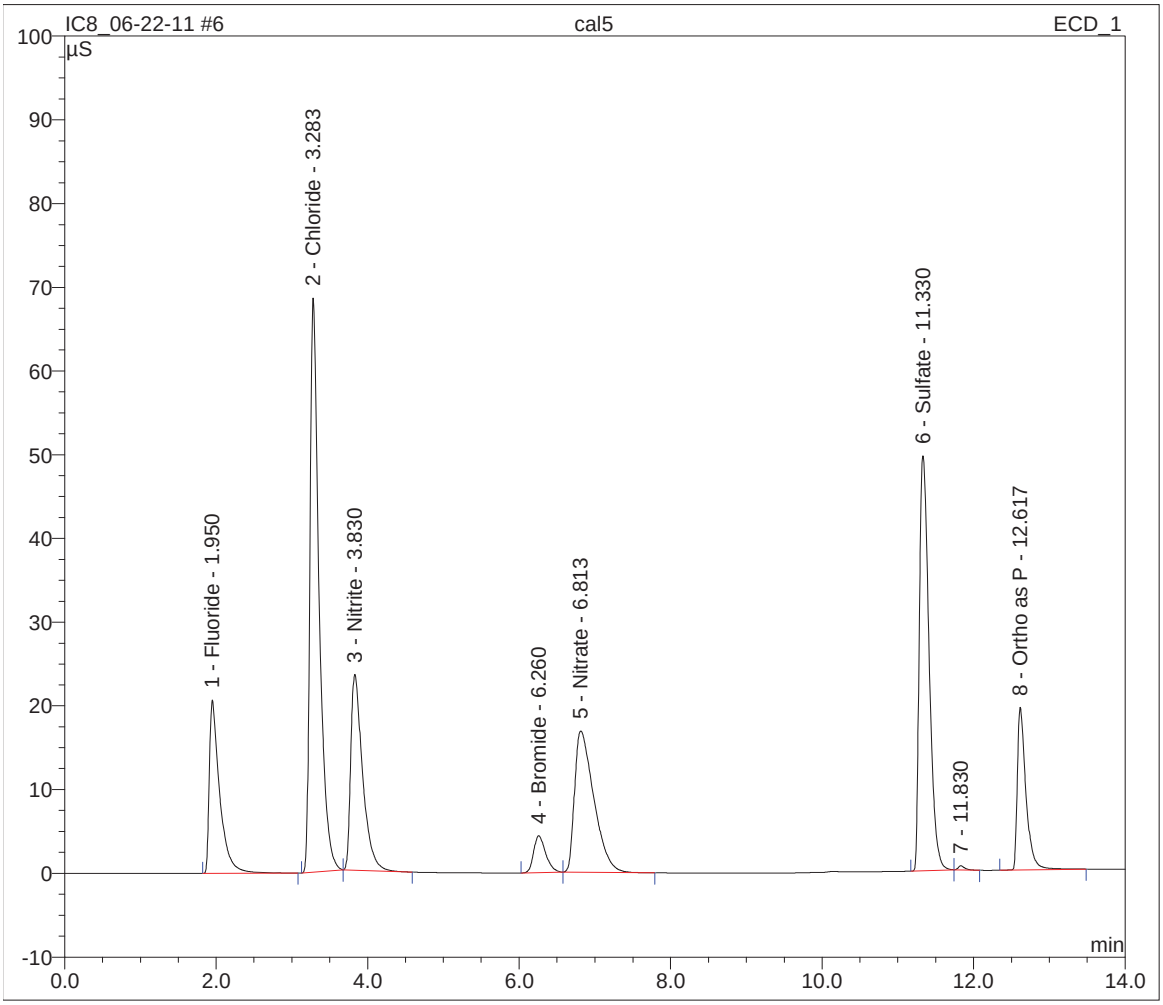
Sample Name:	**cal4**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 13:16**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	1.688	11.079	4.1232
2	3.29	Chloride	BMB	4.806	34.658	19.9923
3	3.84	Nitrite	BMB	2.205	13.133	4.1401
4	6.29	Bromide	BMB	0.399	2.173	4.0047
5	6.89	Nitrate	BMB	2.457	9.768	4.0051
6	11.37	Sulfate	BMb	3.690	29.132	20.0128
8	12.63	Ortho as P	BMB	1.410	11.183	4.1565
		TOTAL:		16.65	111.12	60.43



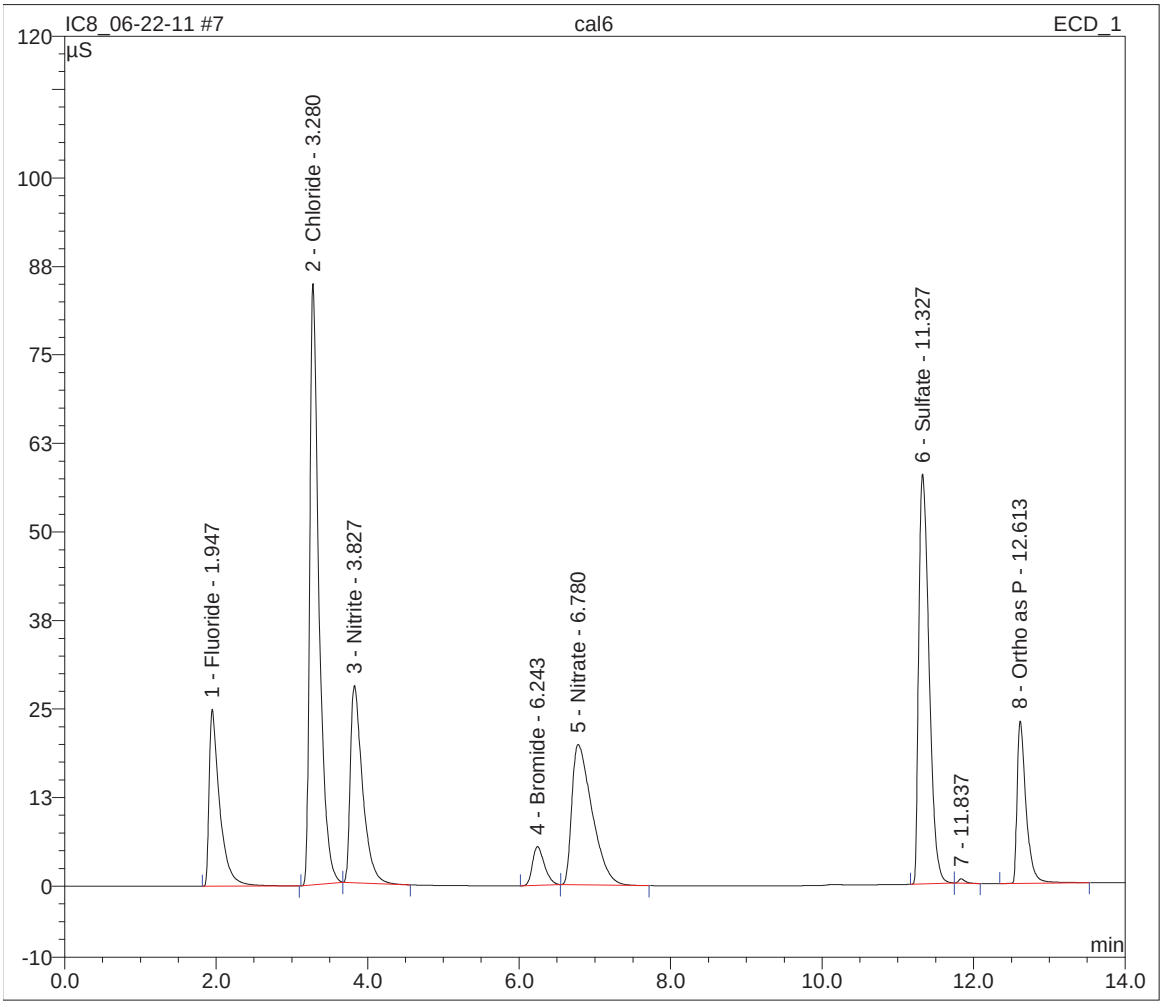
Sample Name:	**cal5**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 13:32**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	3.275	20.693	8.0224
2	3.28	Chloride	BMb	9.647	68.592	40.1693
3	3.83	Nitrite	bMB	4.258	23.409	8.0158
4	6.26	Bromide	BMB	0.808	4.407	8.0832
5	6.81	Nitrate	bMB	4.939	16.841	8.0494
6	11.33	Sulfate	BMb	7.400	49.578	40.2120
8	12.62	Ortho as P	BMB	2.580	19.415	8.0060
		TOTAL:		32.91	202.93	120.56



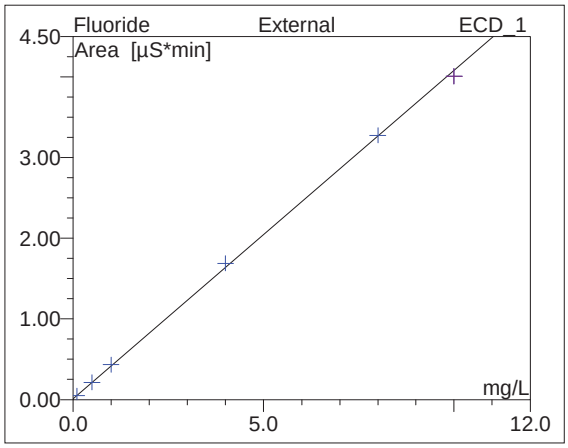
Sample Name:	**cal6**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 13:49**	*Run Time:*	**14.00**

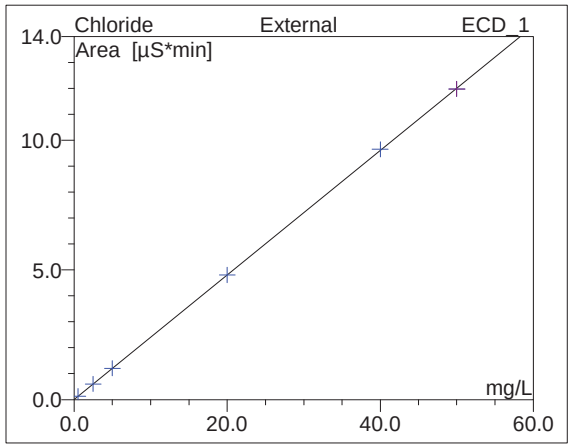
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	4.006	24.950	9.8204
2	3.28	Chloride	BMb	11.974	84.886	49.8680
3	3.83	Nitrite	bMB	5.193	27.834	9.7812
4	6.24	Bromide	BMB	0.997	5.473	9.9692
5	6.78	Nitrate	BMB	6.112	19.792	9.9621
6	11.33	Sulfate	BMb	9.167	57.875	49.8312
8	12.61	Ortho as P	BMB	3.129	22.899	9.8152
		TOTAL:		40.58	243.71	149.05

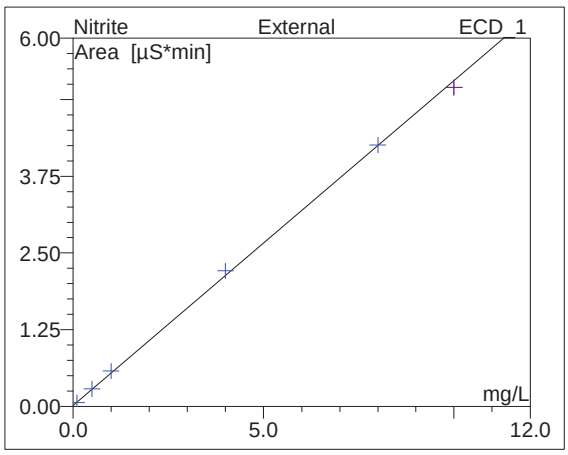


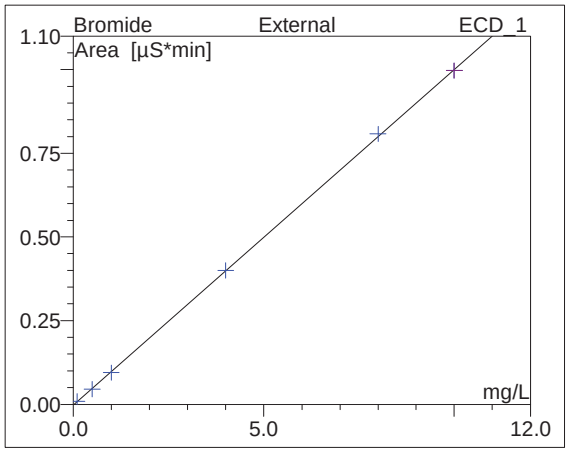
Calibration Batch Report

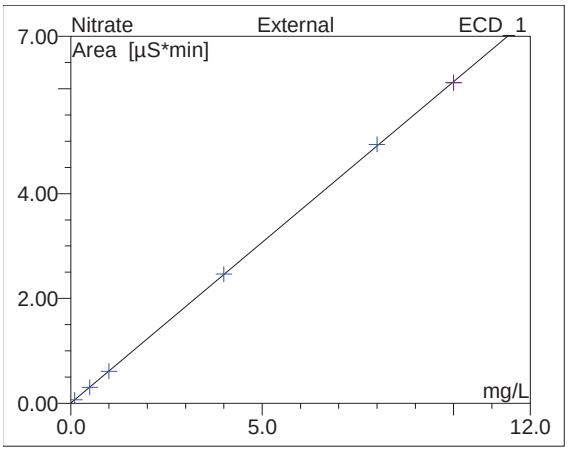
Sequence:	**IC8_06-22-11**	Inj. Vol.:	**10.0**
Program:	**7 Anion**	Operator:	**DENPC241**
Inj. Date/Time:	**06/20/11 13:49**	Run Time:	**14.00**

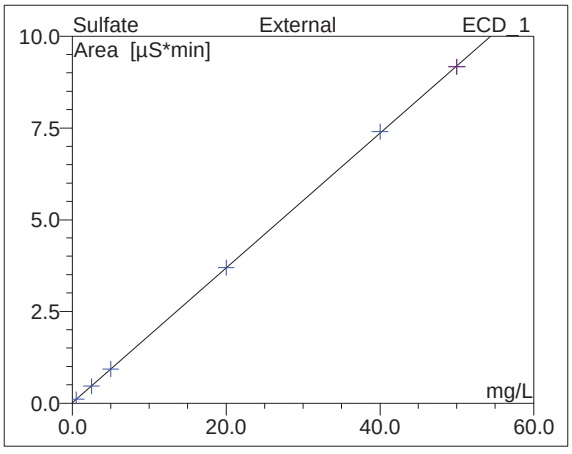




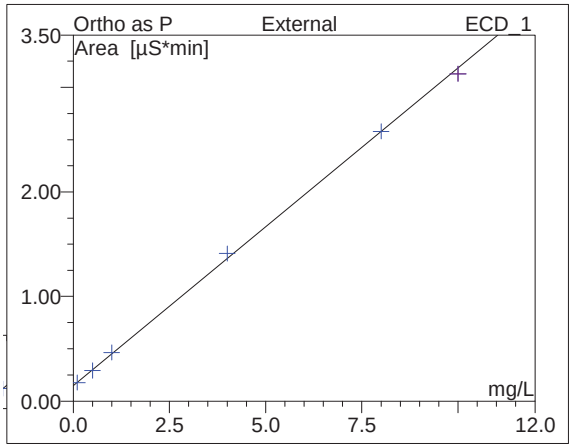








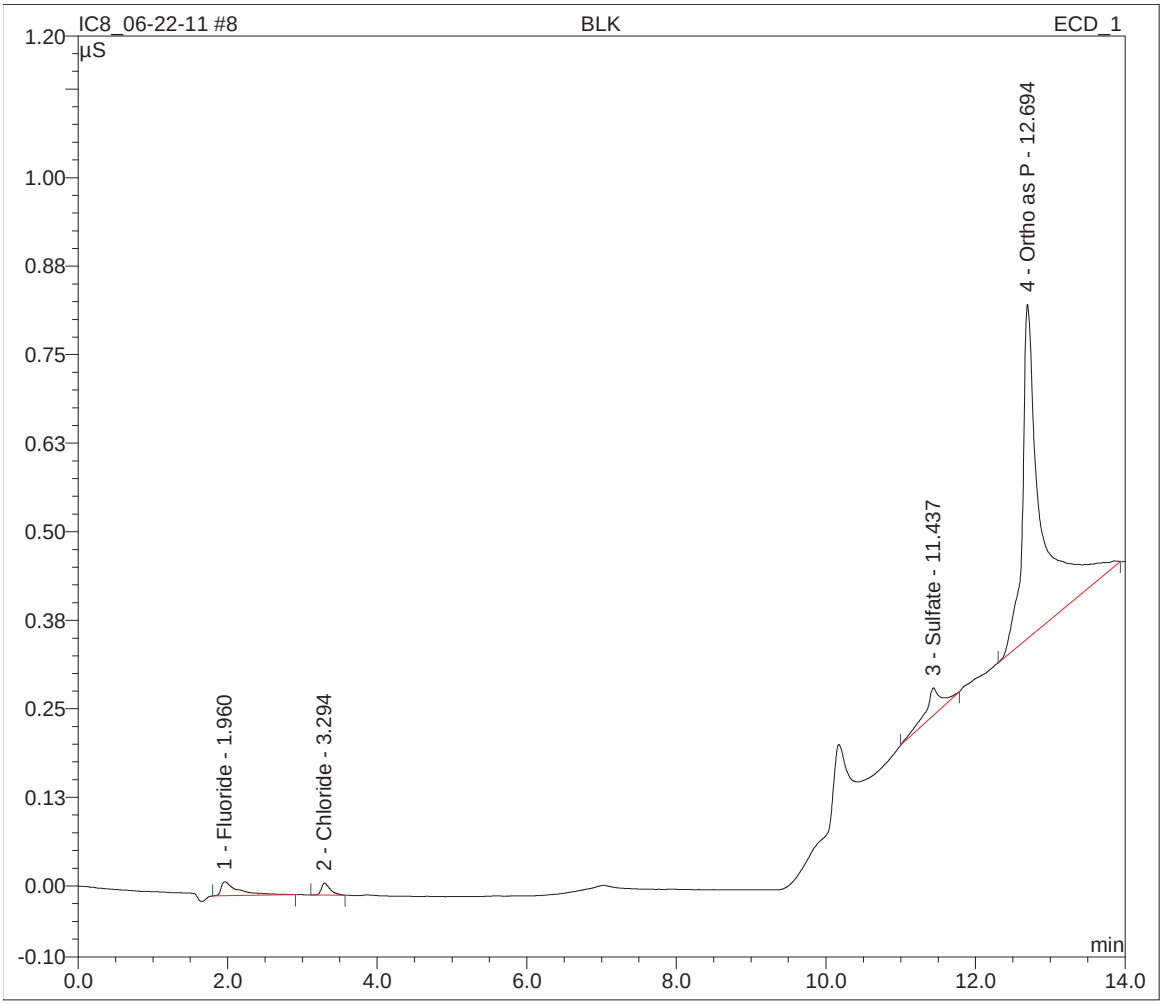
Program:	**7 Anion**	*Operator:*	**n.a.**
Ini. Date/Time:	**06/20/11 13:49**	*Run Time:*	**14.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	1.95	Fluoride	XLOff	6	0.010	0.407	0.000	99.979
2	3.28	Chloride	XLOff	6	0.009	0.240	0.000	99.999
3	3.83	Nitrite	XLOff	6	0.012	0.530	0.000	99.965
4	6.24	Bromide	XLOff	6	-0.002	0.100	0.000	99.989
5	6.78	Nitrate	XLOff	6	0.000	0.614	0.000	99.998
6	11.33	Sulfate	XLOff	6	0.013	0.184	0.000	99.999
8	12.61	Ortho as P	XLOff	6	0.147	0.304	0.000	99.970
AVERAGE:					0.0270	0.3397	0.0000	99.9854

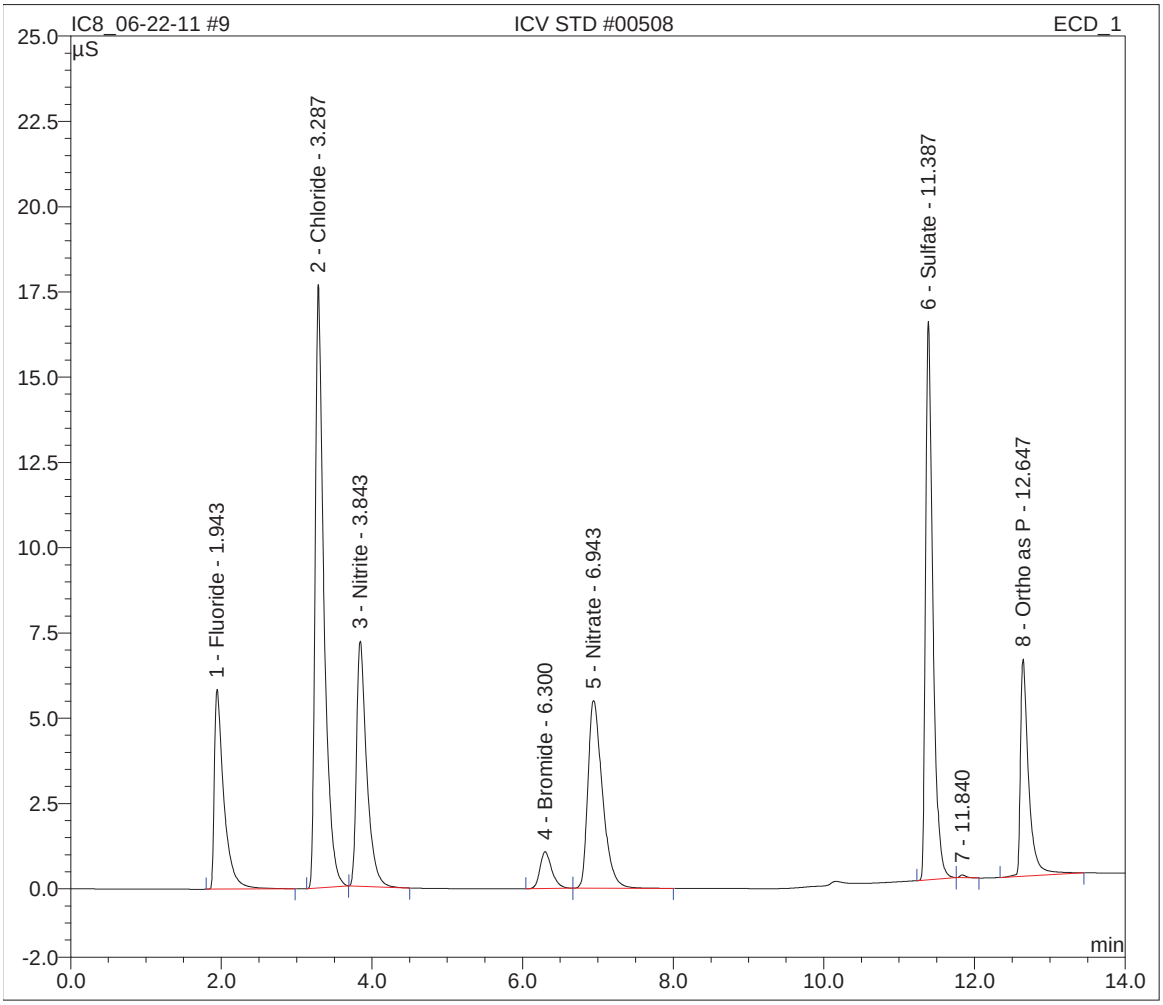
Sample Name:	**BLK**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 14:06**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.96	Fluoride	BMB	0.005	0.020	-0.0109
2	3.29	Chloride	BMB	0.002	0.017	-0.0260
3	11.44	Sulfate	BMB	0.009	0.039	-0.0237
4	12.69	Ortho as P	BMB	0.140	0.472	-0.0212
TOTAL:				0.16	0.55	-0.08



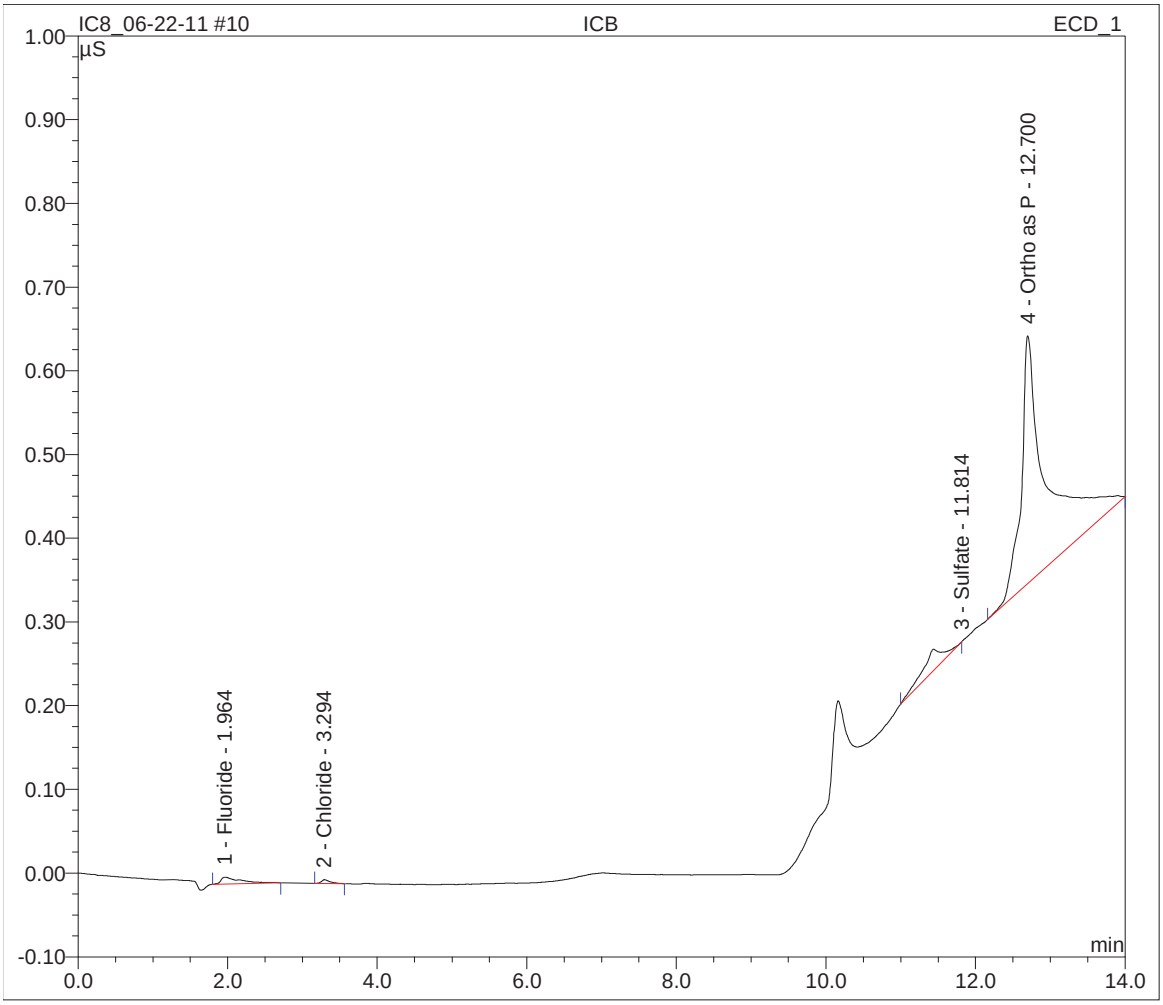
Sample Name:	**ICV STD #00508**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 14:23**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.857	5.849	2.0808
2	3.29	Chloride	BMB	2.404	17.693	9.9847
3	3.84	Nitrite	BMB	1.126	7.197	2.1034
4	6.30	Bromide	BMb	0.196	1.084	1.9745
5	6.94	Nitrate	bMB	1.228	5.495	2.0019
6	11.39	Sulfate	BMb	1.843	16.377	9.9617
8	12.65	Ortho as P	BMB	0.797	6.371	2.1405
		TOTAL:		8.45	60.07	30.25



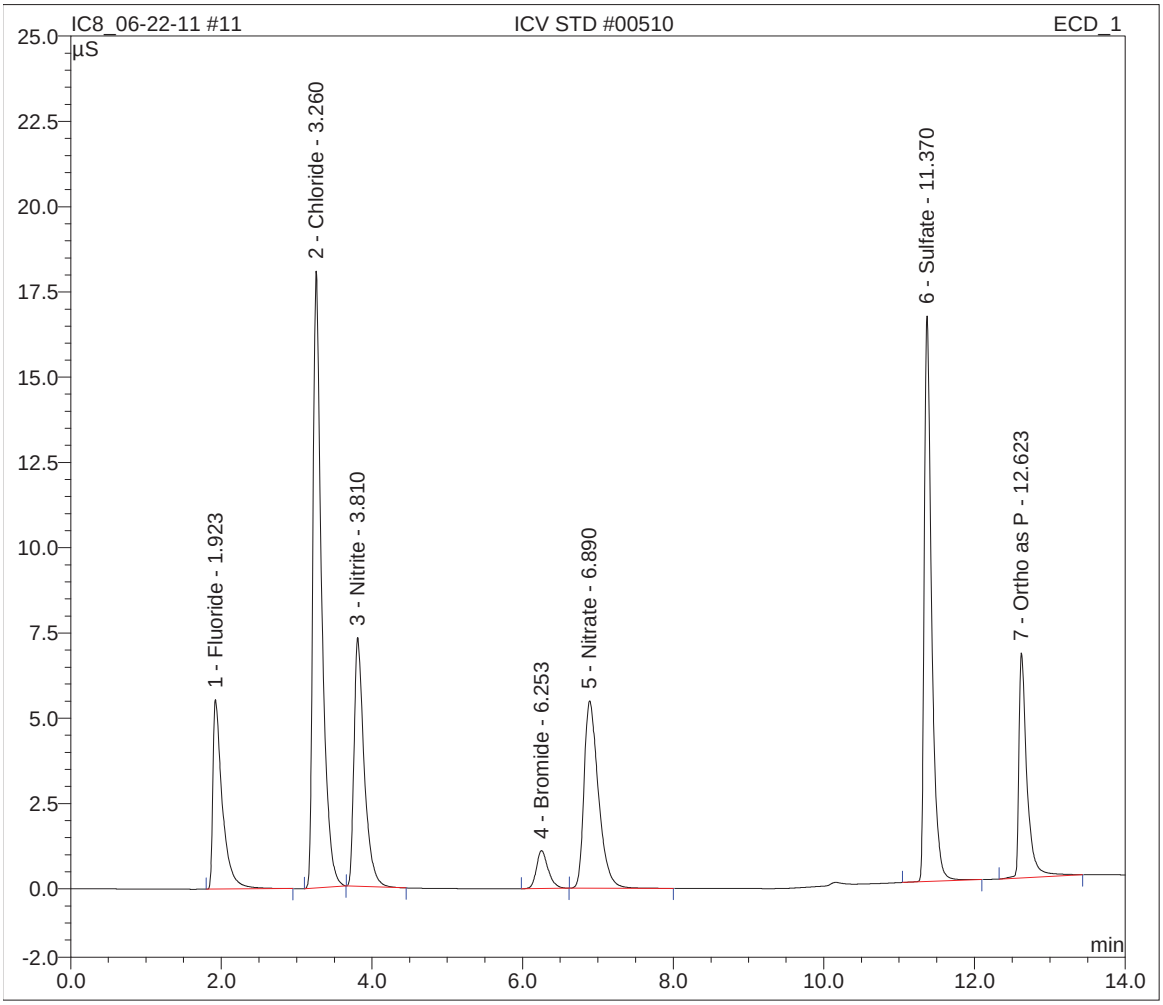
Sample Name:	**ICB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.06.11 14:40**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.96	Fluoride	BMB	0.002	0.008	-0.0181
2	3.29	Chloride	BMB	0.001	0.004	-0.0330
3	11.81	Sulfate	BMB	0.008	0.000	-0.0304
4	12.70	Ortho as P	BMB	0.118	0.296	-0.0956
		TOTAL:		0.13	0.31	-0.18



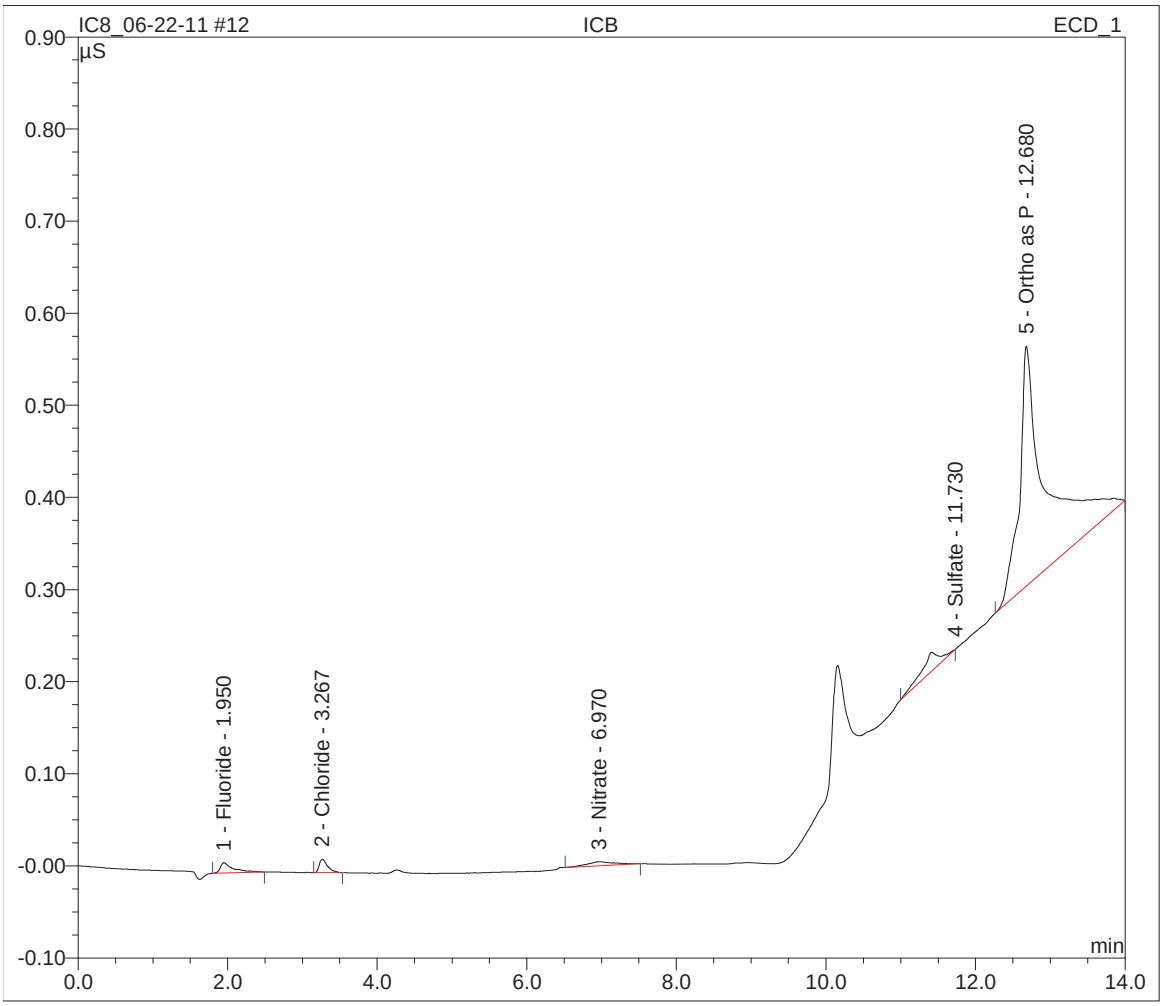
Sample Name:	**ICV STD #00510**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 09:22**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.812	5.550	1.9701
2	3.26	Chloride	BMB	2.437	18.088	10.1206
3	3.81	Nitrite	BMB	1.136	7.295	2.1219
4	6.25	Bromide	BMB	0.199	1.108	2.0037
5	6.89	Nitrate	BMB	1.215	5.493	1.9809
6	11.37	Sulfate	BMB	1.878	16.586	10.1500
7	12.62	Ortho as P	BMB	0.817	6.600	2.2060
TOTAL:				8.49	60.72	30.55



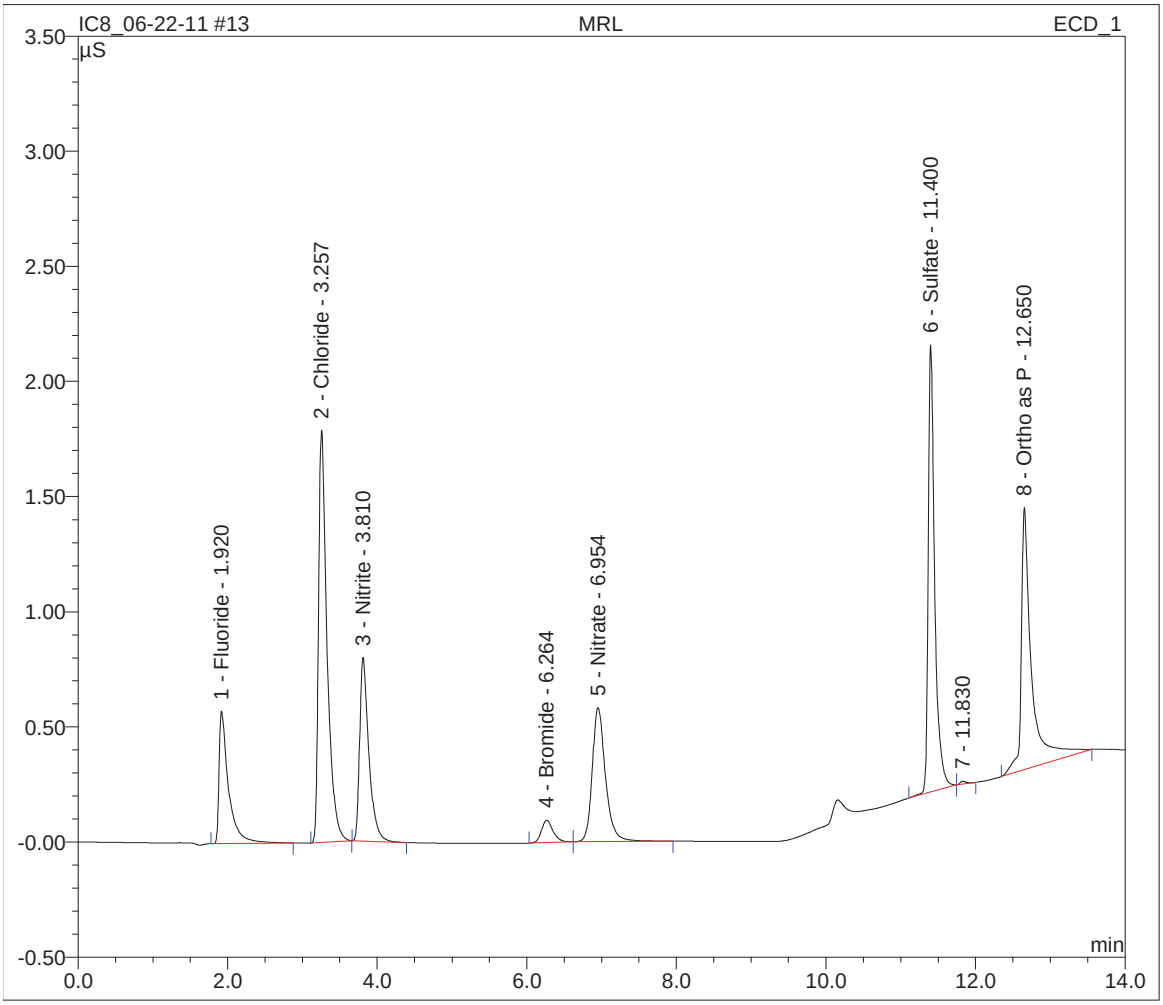
Sample Name:	**ICB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 09:59**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	0.002	0.011	-0.0186
2	3.27	Chloride	BMB	0.002	0.015	-0.0277
3	6.97	Nitrate	BMB	0.002	0.004	0.0029
4	11.73	Sulfate	BMB	0.006	0.000	-0.0428
5	12.68	Ortho as P	BMB	0.108	0.261	-0.1275
		TOTAL:		0.12	0.29	-0.21



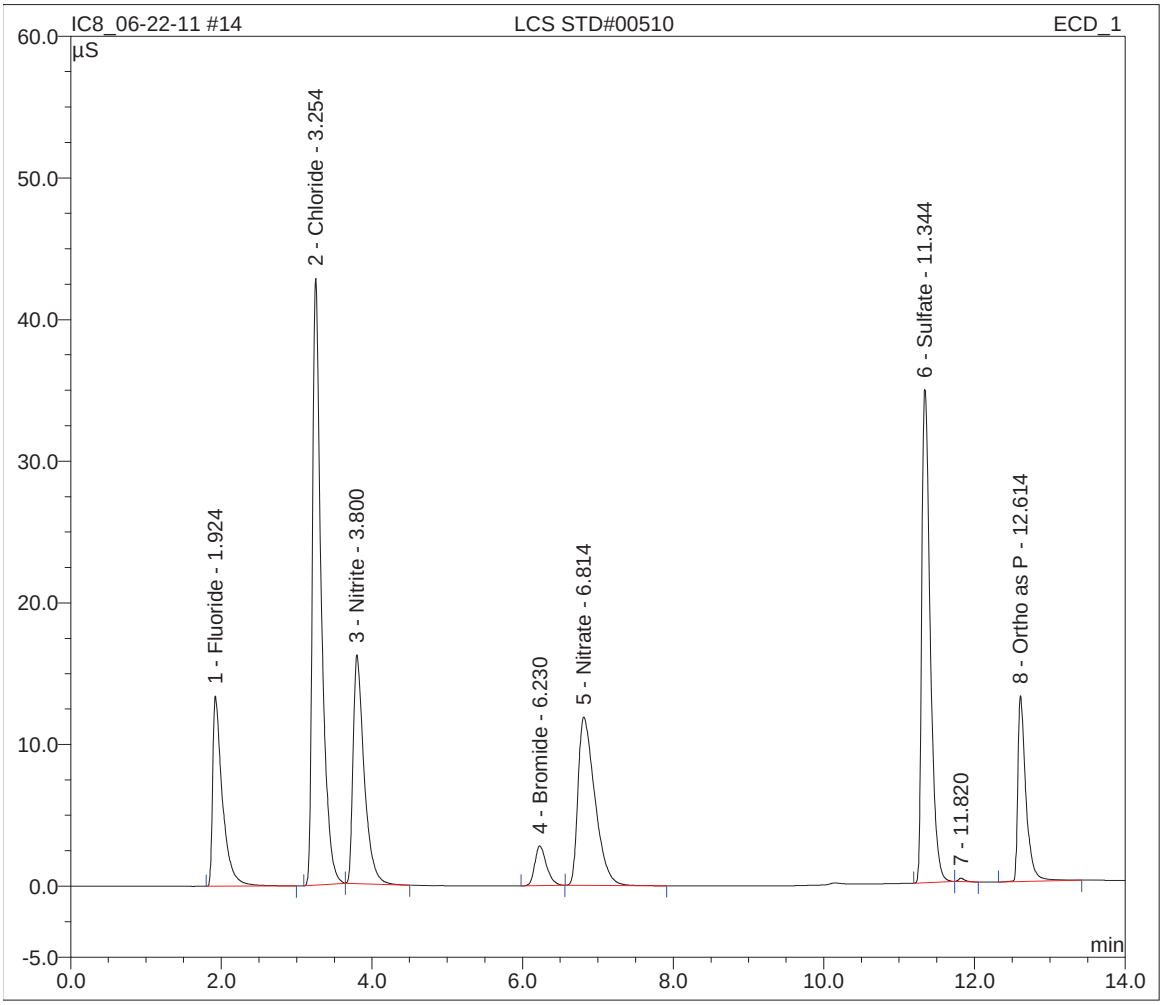
Sample Name:	**MRL**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 10:16**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.085	0.575	0.1836
2	3.26	Chloride	BMB	0.237	1.790	0.9510
3	3.81	Nitrite	BMB	0.114	0.799	0.1918
4	6.26	Bromide	BMB	0.017	0.097	0.1912
5	6.95	Nitrate	bMB	0.119	0.582	0.1939
6	11.40	Sulfate	BMB	0.195	1.942	0.9886
8	12.65	Ortho as P	BMB	0.181	1.139	0.1127
		TOTAL:		0.95	6.92	2.81



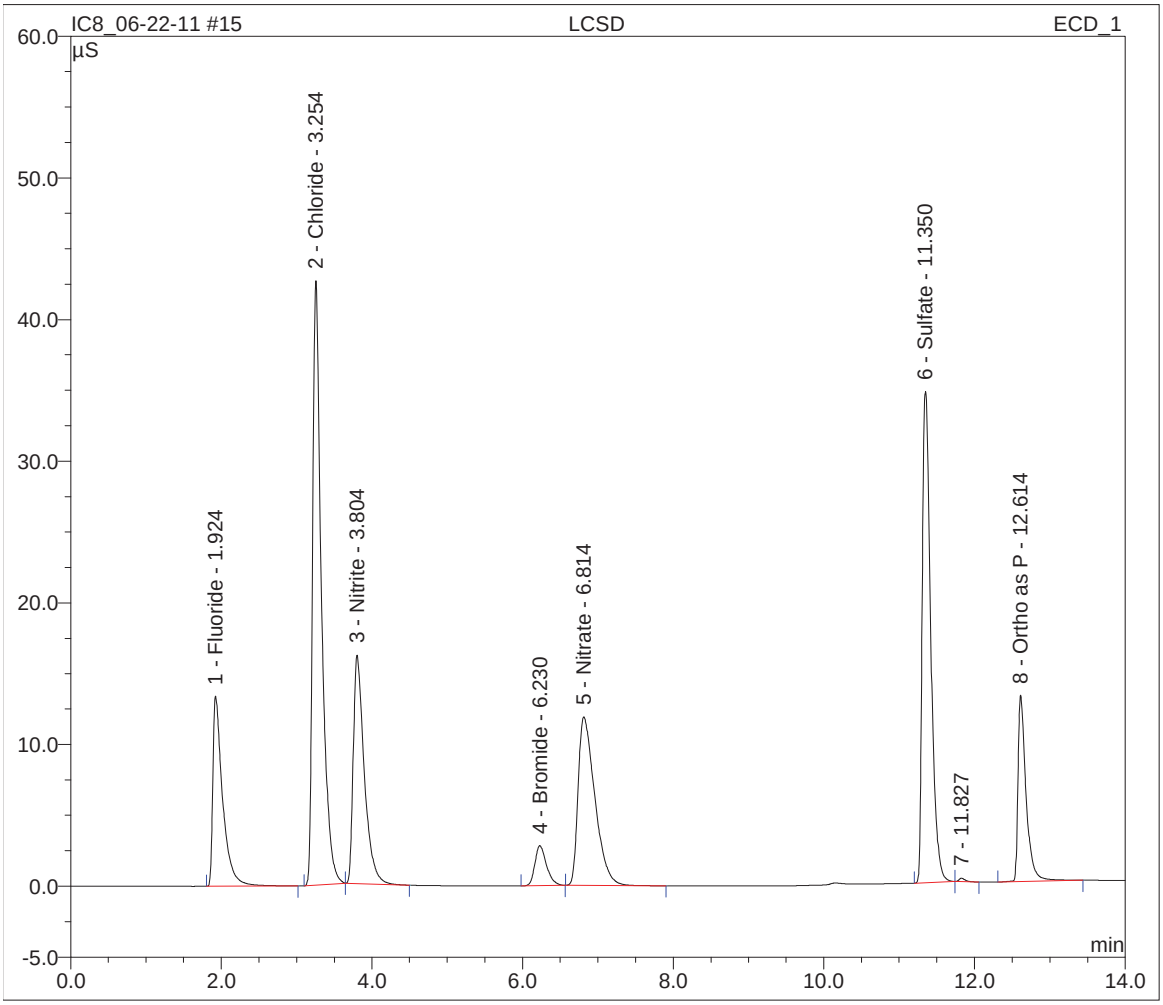
Sample Name:	**LCS STD#00510**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 10:33**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.025	13.416	4.9522
2	3.25	Chloride	BMB	5.841	42.838	24.3052
3	3.80	Nitrite	BMB	2.724	16.150	5.1192
4	6.23	Bromide	BMB	0.505	2.813	5.0612
5	6.81	Nitrate	BMB	3.073	11.878	5.0076
6	11.34	Sulfate	BMB	4.591	34.811	24.9209
8	12.61	Ortho as P	BMB	1.631	13.105	4.8845
		TOTAL:		20.39	135.01	74.25



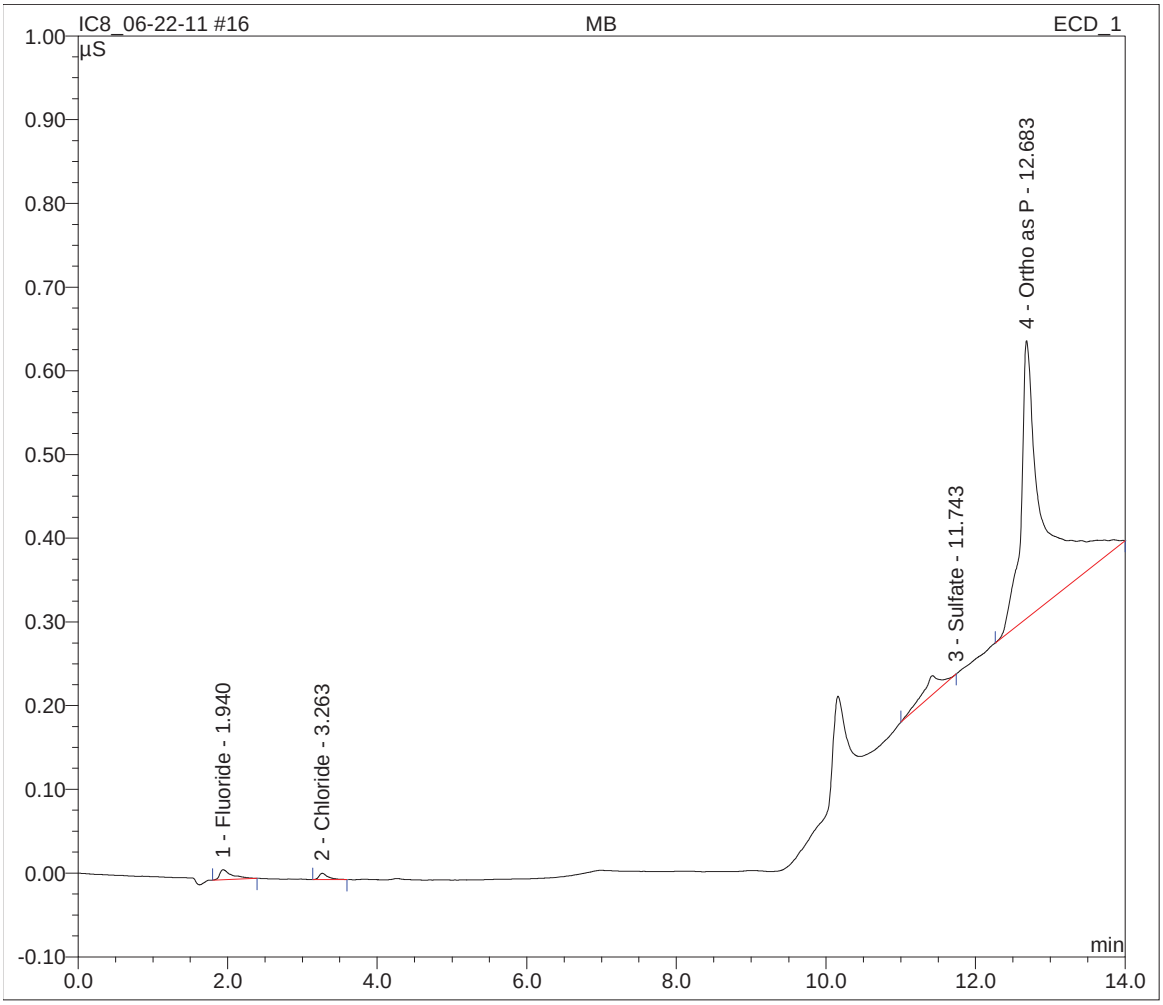
Sample Name:	**LCSD**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 10:50**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.022	13.405	4.9441
2	3.25	Chloride	BMb	5.821	42.667	24.2251
3	3.80	Nitrite	bMB	2.720	16.139	5.1126
4	6.23	Bromide	BMB	0.505	2.826	5.0555
5	6.81	Nitrate	BMB	3.063	11.893	4.9916
6	11.35	Sulfate	BMb	4.569	34.670	24.8007
8	12.61	Ortho as P	BMB	1.639	13.138	4.9108
		TOTAL:		20.34	134.74	74.04



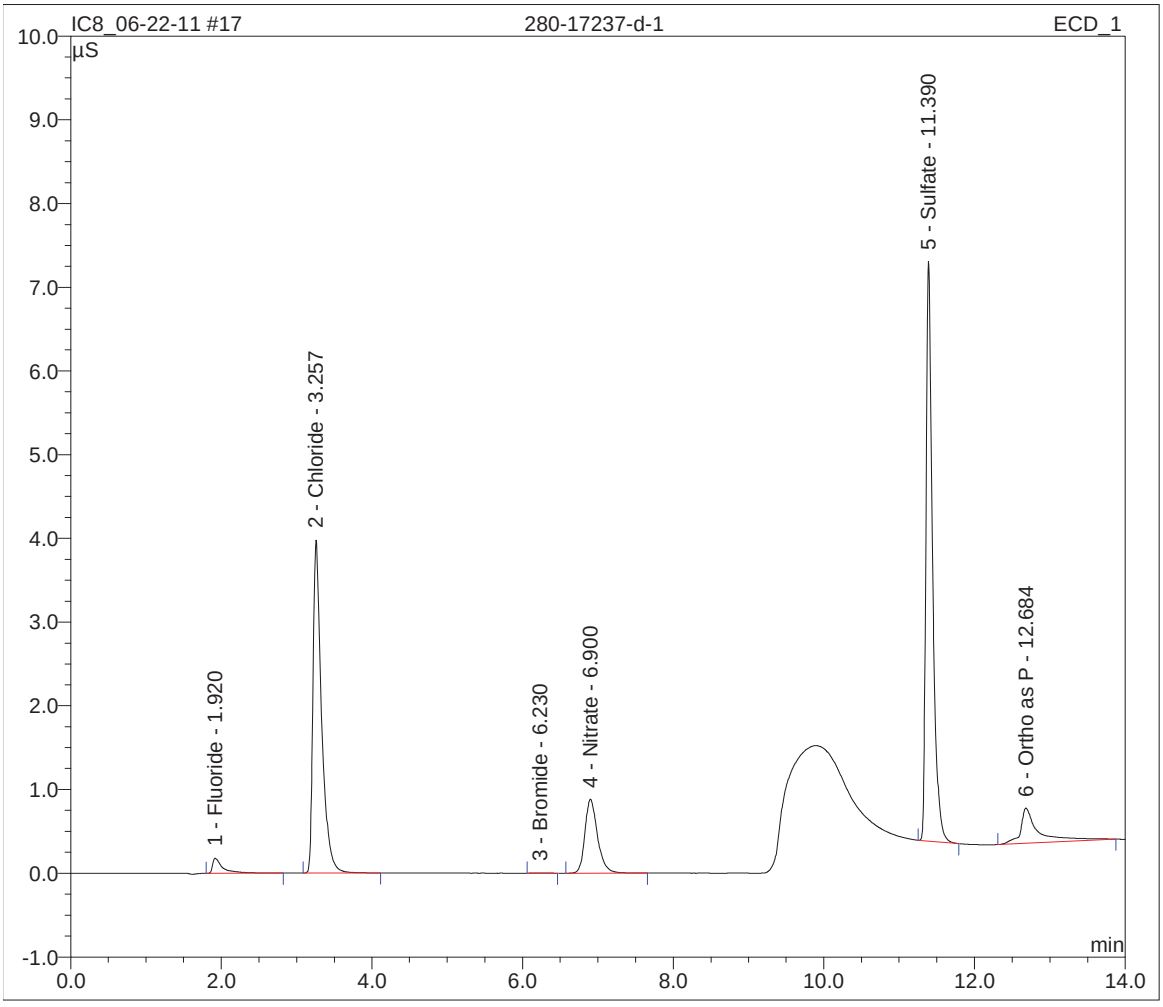
Sample Name:	**MB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 11:07**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.002	0.012	-0.0186
2	3.26	Chloride	BMB	0.001	0.007	-0.0312
3	11.74	Sulfate	BMB	0.006	0.000	-0.0392
4	12.68	Ortho as P	BMB	0.117	0.332	-0.0984
TOTAL:				0.13	0.35	-0.19



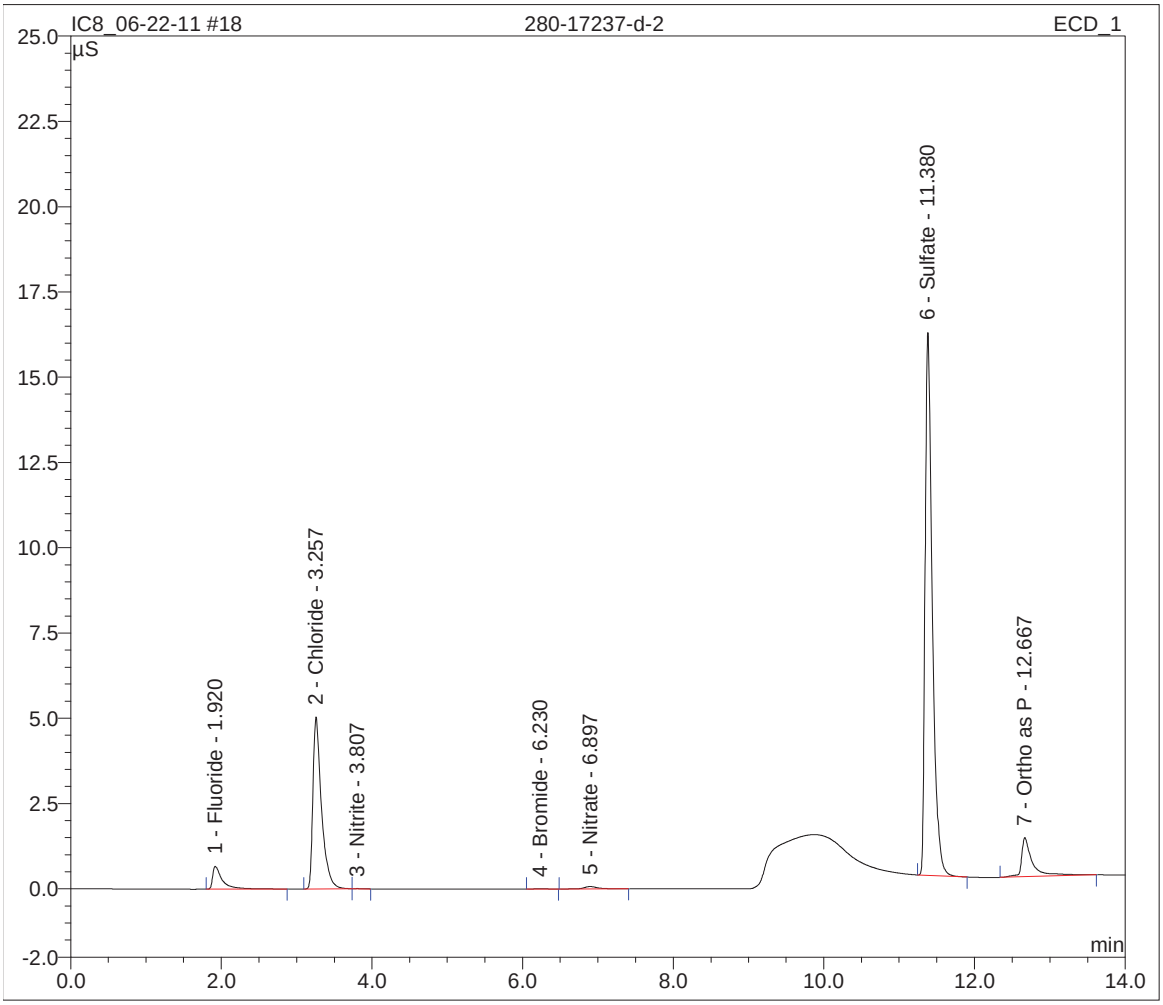
Sample Name:	**280-17237-d-1**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 11:56**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.028	0.181	0.0458
2	3.26	Chloride	BMB	0.525	3.976	2.1526
3	6.23	Bromide	BMB	0.001	0.003	0.0238
4	6.90	Nitrate	BMB	0.171	0.883	0.2789
5	11.39	Sulfate	BMB	0.701	6.925	3.7417
6	12.68	Ortho as P	BMB	0.115	0.419	-0.1032
		TOTAL:		1.54	12.39	6.14



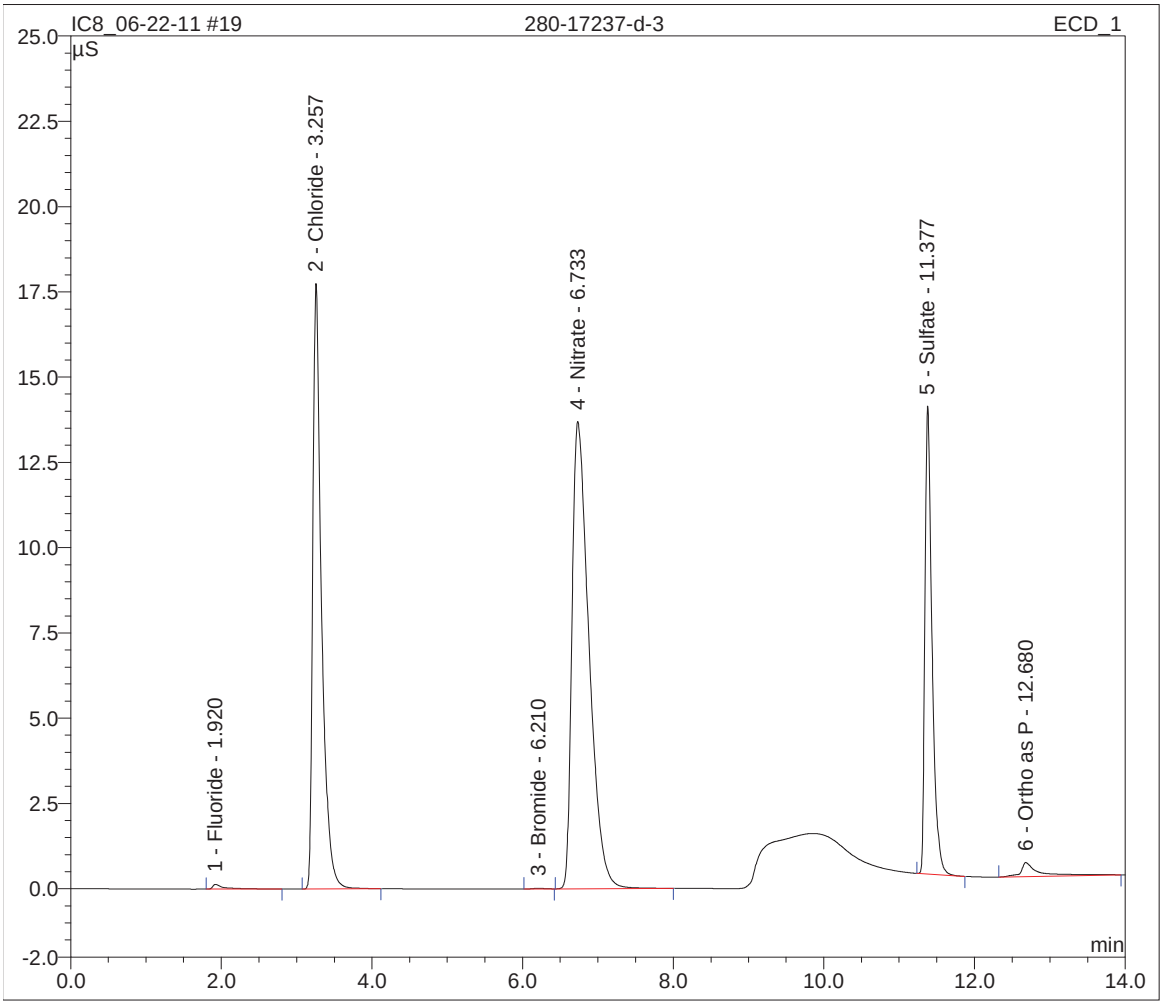
Sample Name:	**280-17237-d-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 12:13**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.098	0.667	0.2164
2	3.26	Chloride	BMb	0.662	5.039	2.7248
3	3.81	Nitrite	bMB	0.001	0.006	-0.0220
4	6.23	Bromide	BMB	0.001	0.008	0.0306
5	6.90	Nitrate	BMB	0.014	0.069	0.0227
6	11.38	Sulfate	BMB	1.770	15.925	9.5618
7	12.67	Ortho as P	BMB	0.192	1.147	0.1479
		TOTAL:		2.74	22.86	12.68



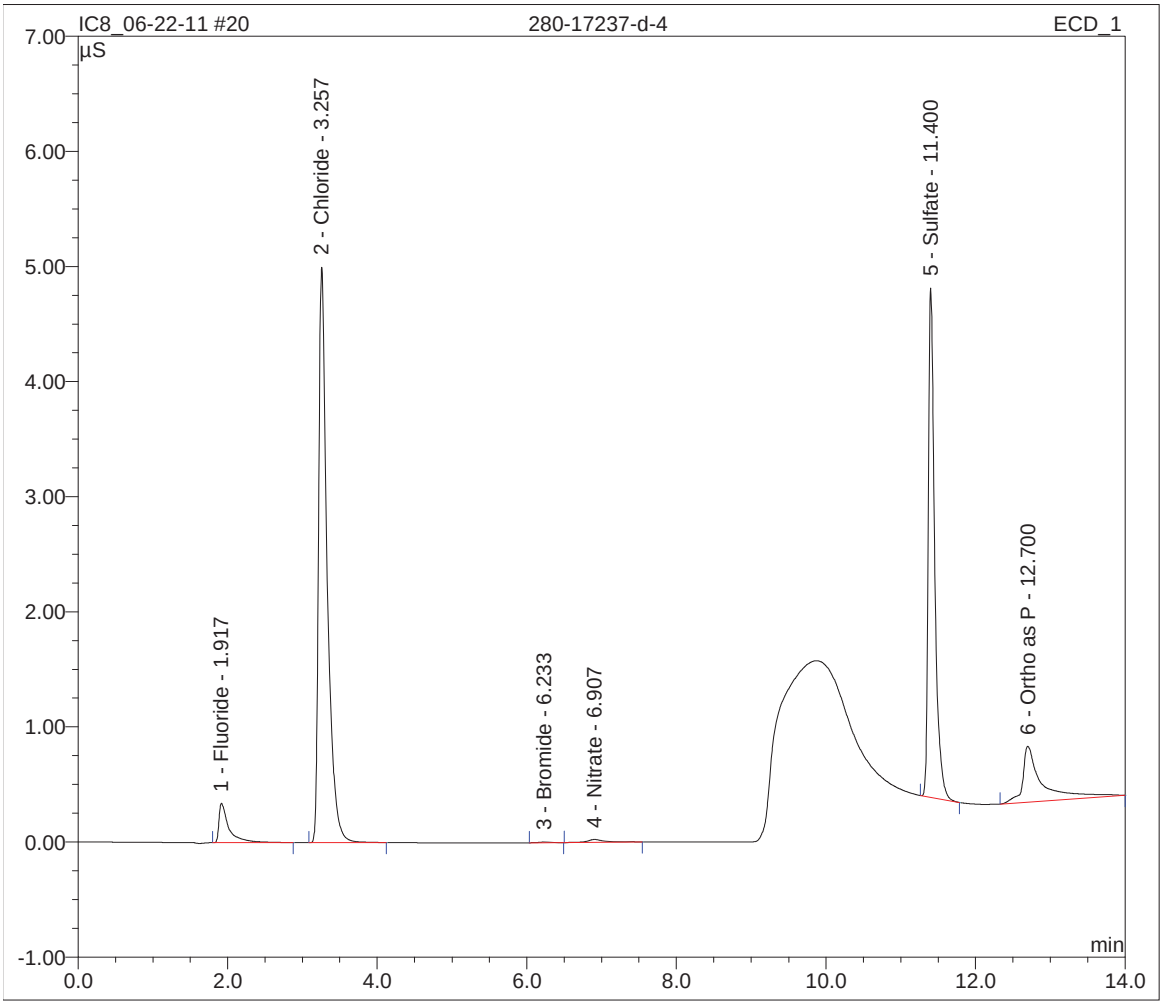
Sample Name:	**280-17237-d-3**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 12:30**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.023	0.133	0.0315
2	3.26	Chloride	BMB	2.373	17.751	9.8520
3	6.21	Bromide	BMB	0.003	0.019	0.0473
4	6.73	Nitrate	BMB	3.575	13.698	5.8270
5	11.38	Sulfate	BMB	1.505	13.718	8.1196
6	12.68	Ortho as P	BMB	0.114	0.411	-0.1074
		TOTAL:		7.59	45.73	23.77



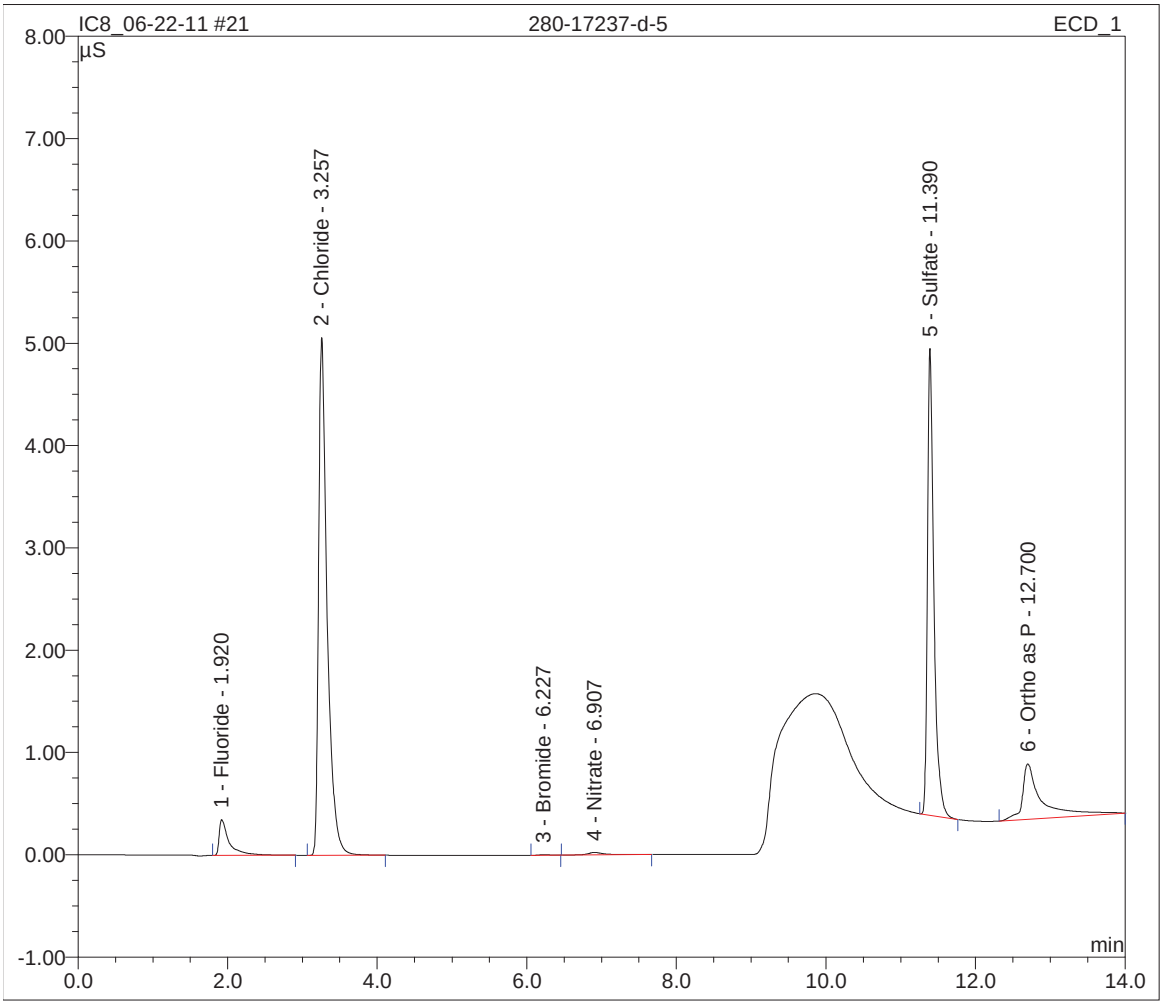
Sample Name:	**280-17237-d-4**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 12:47**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.053	0.342	0.1049
2	3.26	Chloride	BMB	0.664	5.000	2.7332
3	6.23	Bromide	BMB	0.001	0.006	0.0264
4	6.91	Nitrate	BMB	0.006	0.024	0.0097
5	11.40	Sulfate	BMB	0.440	4.426	2.3221
6	12.70	Ortho as P	BMB	0.146	0.485	-0.0028
		TOTAL:		1.31	10.28	5.19



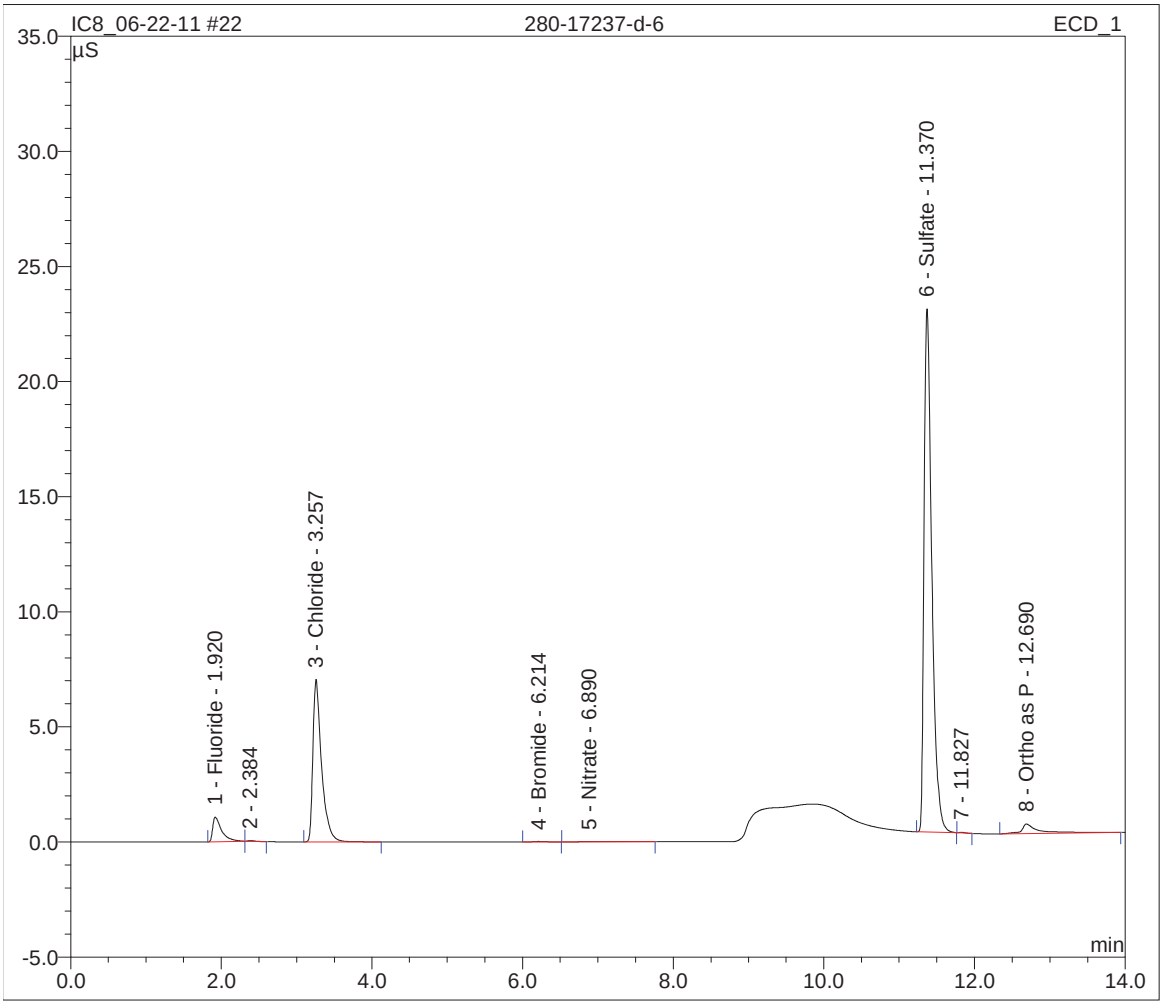
Sample Name:	**280-17237-d-5**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 13:04**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.054	0.348	0.1089
2	3.26	Chloride	BMB	0.668	5.060	2.7465
3	6.23	Bromide	BMB	0.001	0.005	0.0265
4	6.91	Nitrate	BMB	0.007	0.024	0.0105
5	11.39	Sulfate	BMB	0.453	4.560	2.3947
6	12.70	Ortho as P	BMB	0.161	0.541	0.0479
		TOTAL:		1.34	10.54	5.34



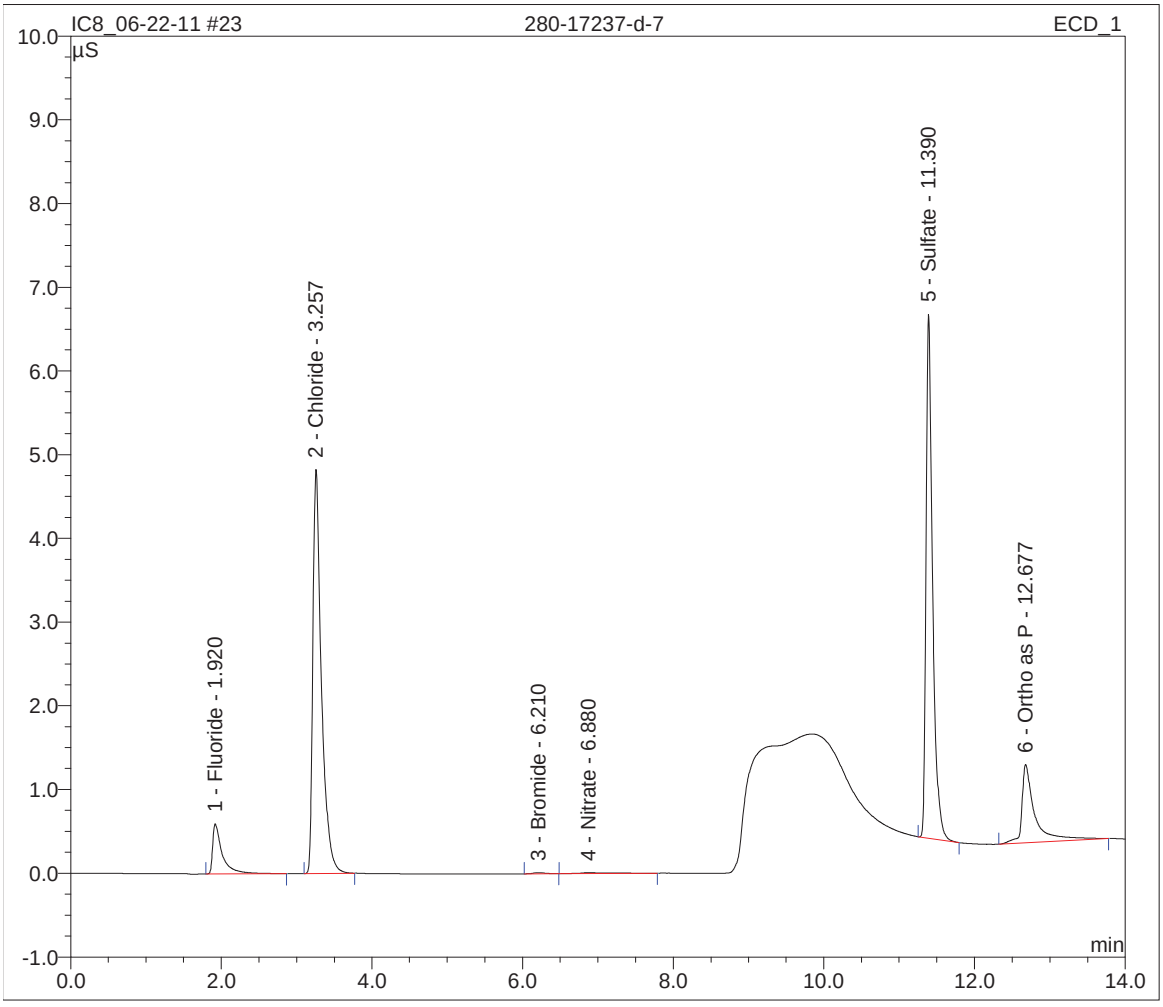
Sample Name:	**280-17237-d-6**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 13:20**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMb	0.147	1.069	0.3367
3	3.26	Chloride	BMB	0.938	7.048	3.8725
4	6.21	Bromide	BMB	0.003	0.020	0.0505
5	6.89	Nitrate	BMB	0.004	0.009	0.0058
6	11.37	Sulfate	BMB	2.714	22.741	14.6999
8	12.69	Ortho as P	BMB	0.115	0.416	-0.1040
		TOTAL:		3.92	31.30	18.86



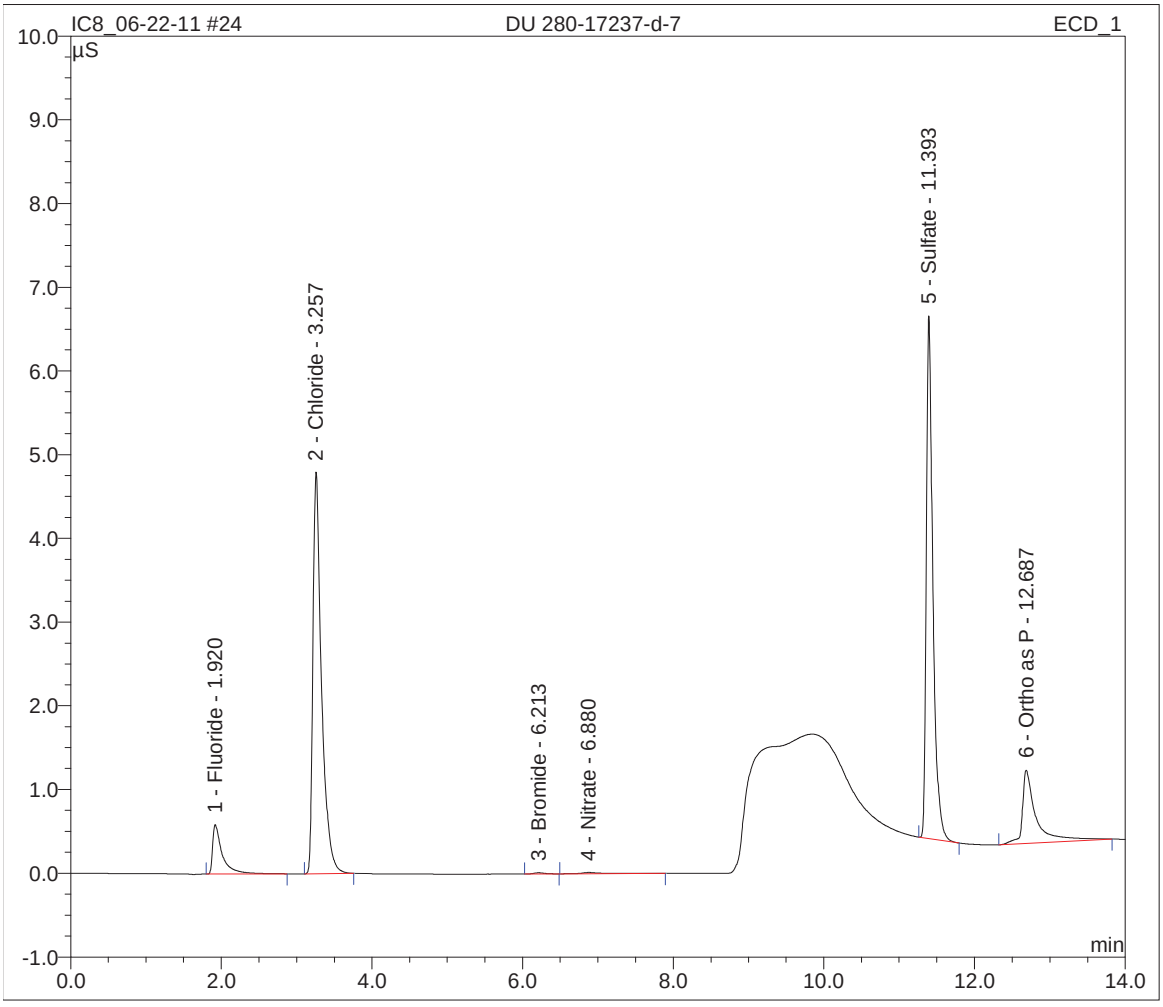
Sample Name:	**280-17237-d-7**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 13:37**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.087	0.597	0.1905
2	3.26	Chloride	BMB	0.636	4.828	2.6164
3	6.21	Bromide	BMB	0.002	0.014	0.0404
4	6.88	Nitrate	BMB	0.004	0.010	0.0063
5	11.39	Sulfate	BMB	0.633	6.259	3.3706
6	12.68	Ortho as P	BMB	0.186	0.936	0.1305
		TOTAL:		1.55	12.64	6.35



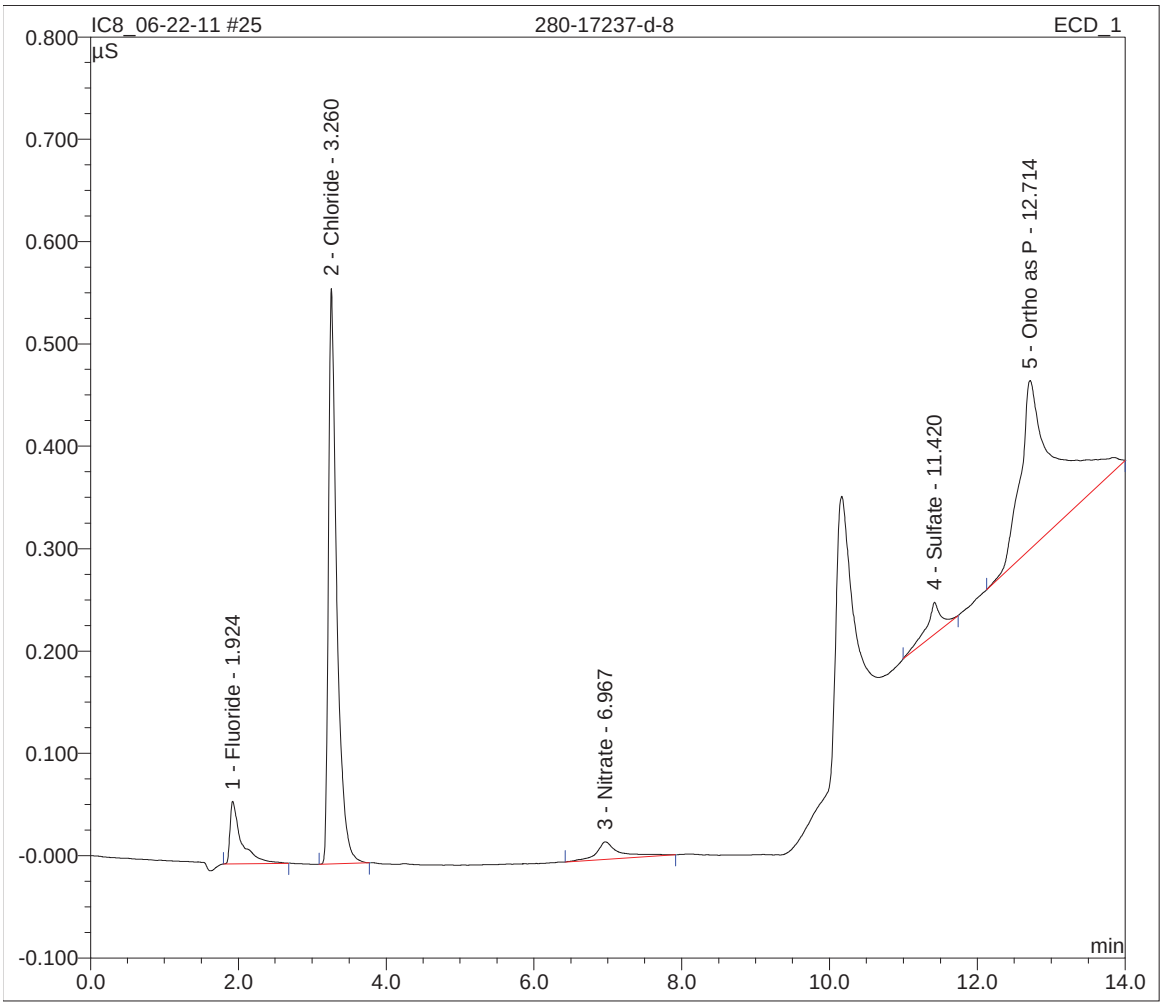
Sample Name:	**DU 280-17237-d-7**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 13:54**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.087	0.590	0.1897
2	3.26	Chloride	BMB	0.635	4.798	2.6114
3	6.21	Bromide	BMB	0.002	0.014	0.0416
4	6.88	Nitrate	BMB	0.005	0.015	0.0079
5	11.39	Sulfate	BMB	0.634	6.248	3.3781
6	12.69	Ortho as P	BMB	0.184	0.875	0.1223
		TOTAL:		1.55	12.54	6.35



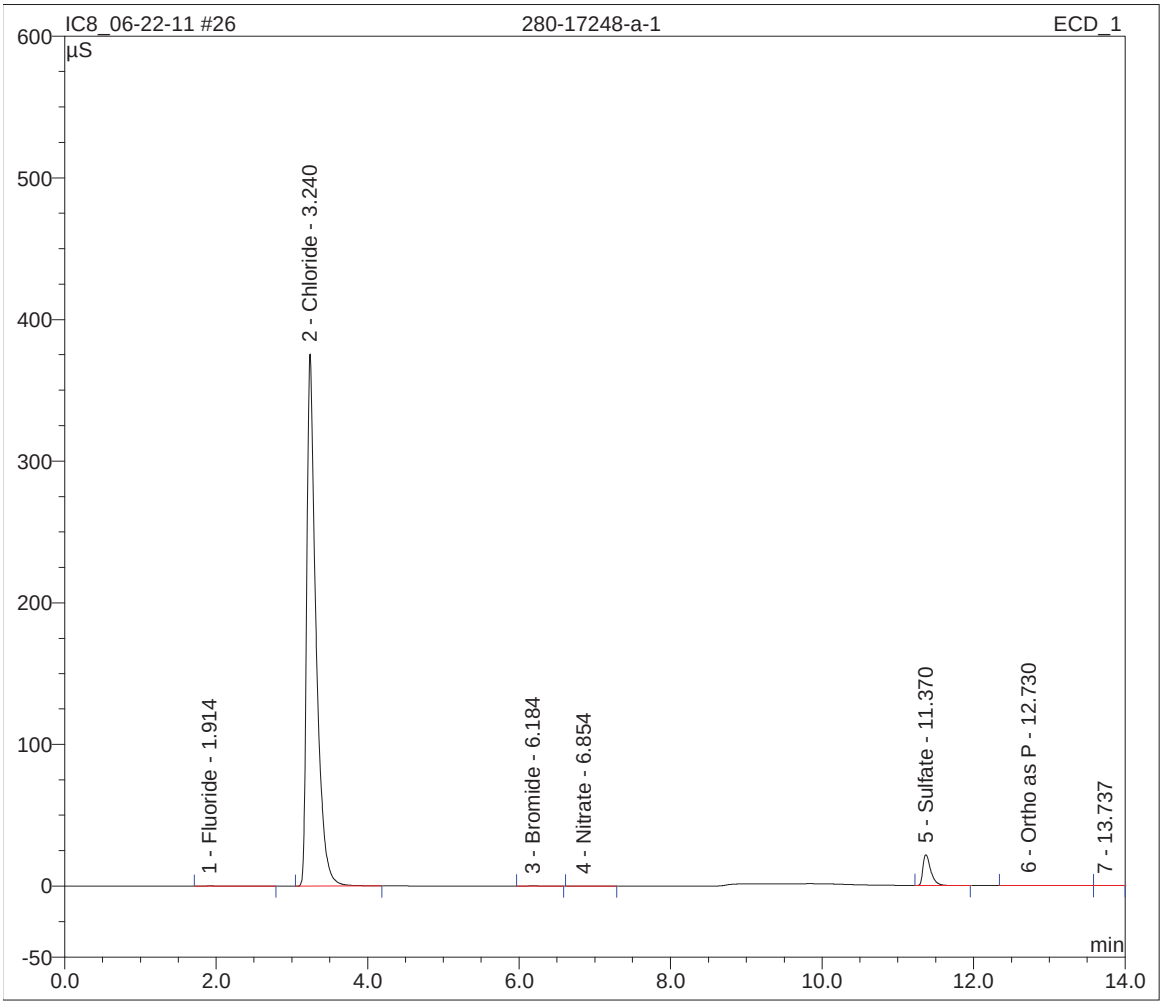
Sample Name:	**280-17237-d-8**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 14:11**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.011	0.061	0.0022
2	3.26	Chloride	BMB	0.074	0.563	0.2733
3	6.97	Nitrate	BMB	0.006	0.017	0.0100
4	11.42	Sulfate	BMB	0.007	0.031	-0.0352
5	12.71	Ortho as P	BMB	0.092	0.165	-0.1818
		TOTAL:		0.19	0.84	0.07



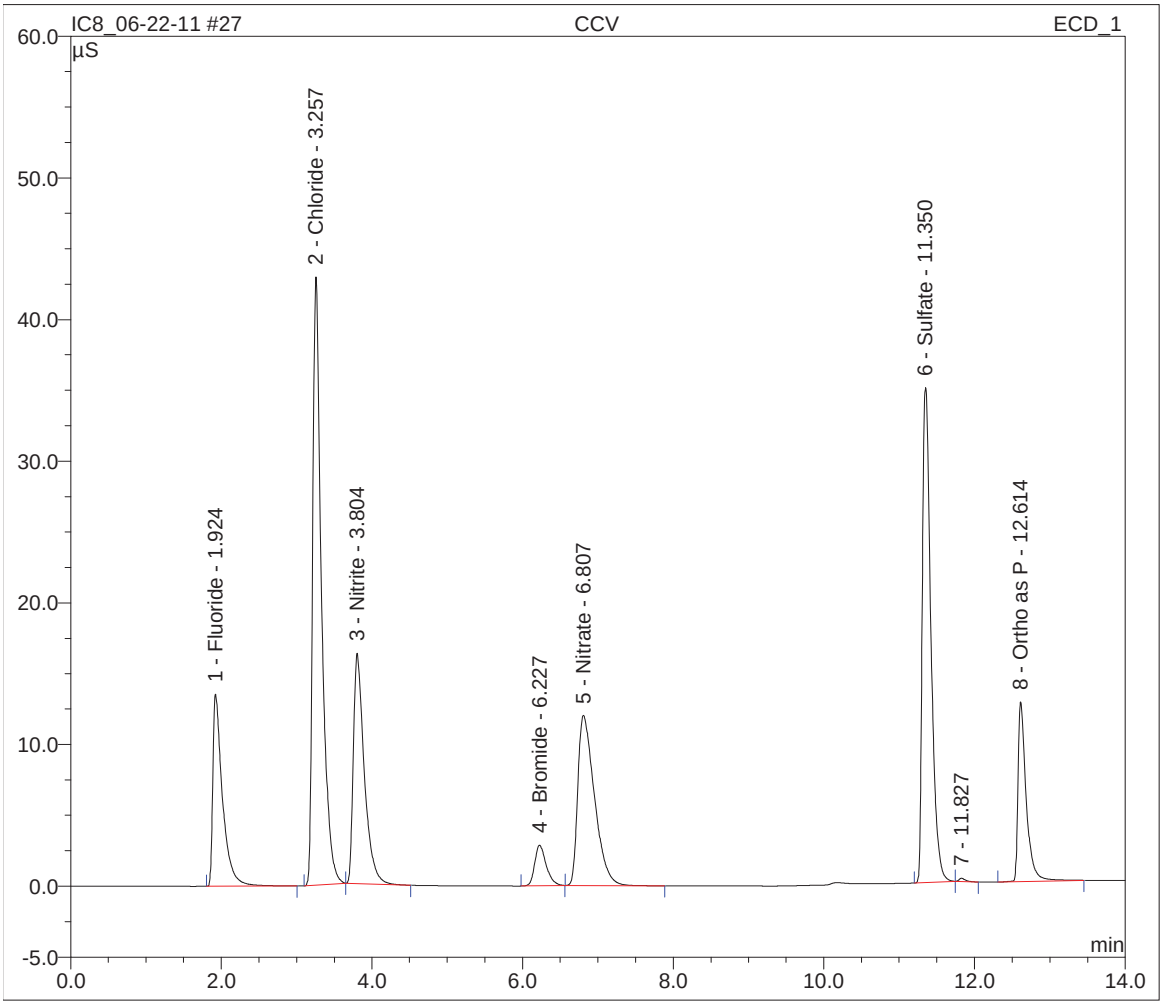
Sample Name:	**280-17248-a-1**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 14:28**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.91	Fluoride	BMB	0.026	0.147	0.0408
2	3.24	Chloride	BMB	53.559	375.455	223.1737
3	6.18	Bromide	BMB	0.022	0.126	0.2355
4	6.85	Nitrate	BMB	0.002	0.007	0.0026
5	11.37	Sulfate	BMB	2.592	21.616	14.0402
6	12.73	Ortho as P	BMb	0.046	0.087	-0.3315
		TOTAL:		56.25	397.44	237.16



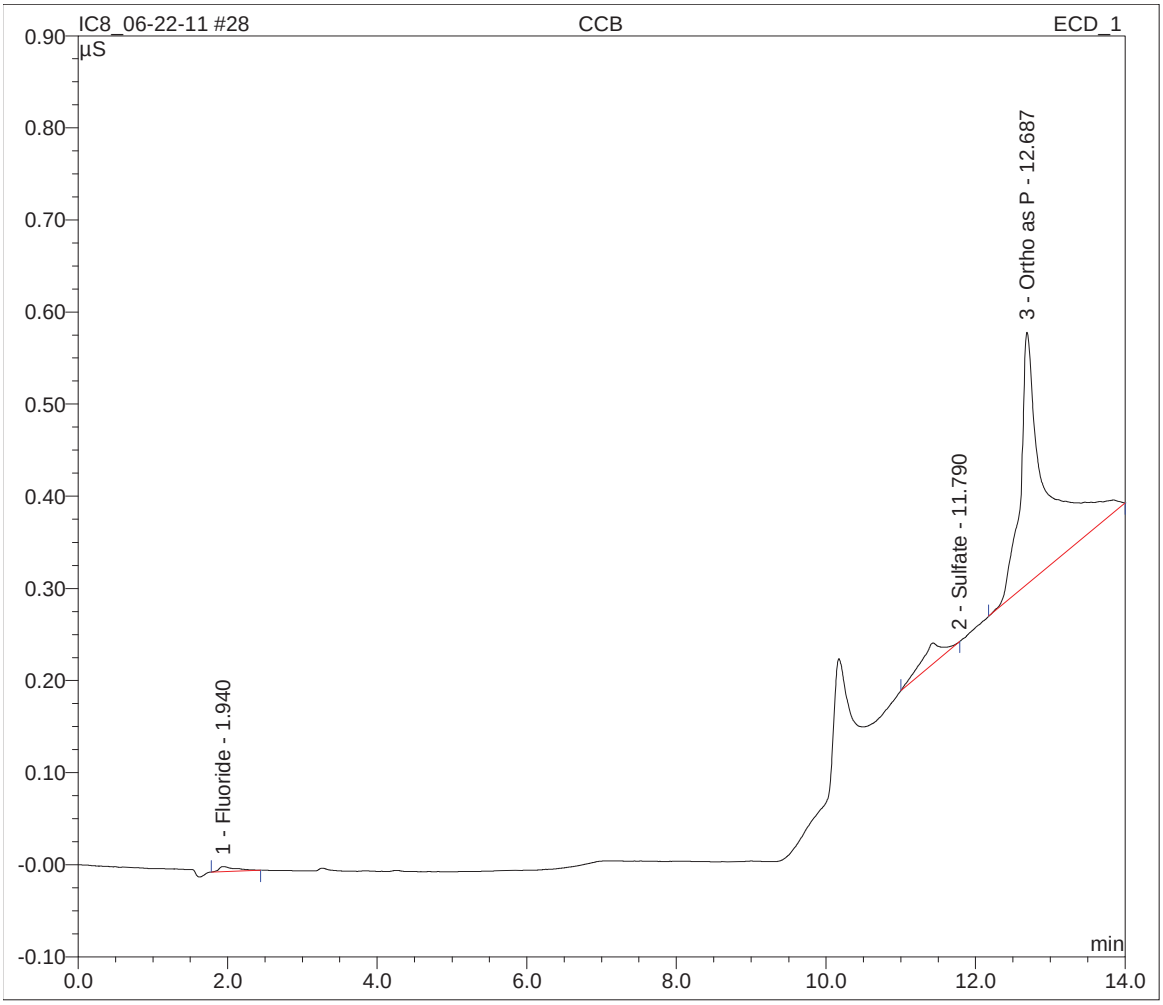
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 14:44**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.021	13.551	4.9428
2	3.26	Chloride	BMb	5.837	42.952	24.2908
3	3.80	Nitrite	bMB	2.730	16.271	5.1303
4	6.23	Bromide	BMB	0.506	2.870	5.0692
5	6.81	Nitrate	BMB	3.070	12.000	5.0038
6	11.35	Sulfate	BMb	4.643	34.938	25.2026
8	12.61	Ortho as P	BMB	1.606	12.669	4.8009
		TOTAL:		20.41	135.25	74.44



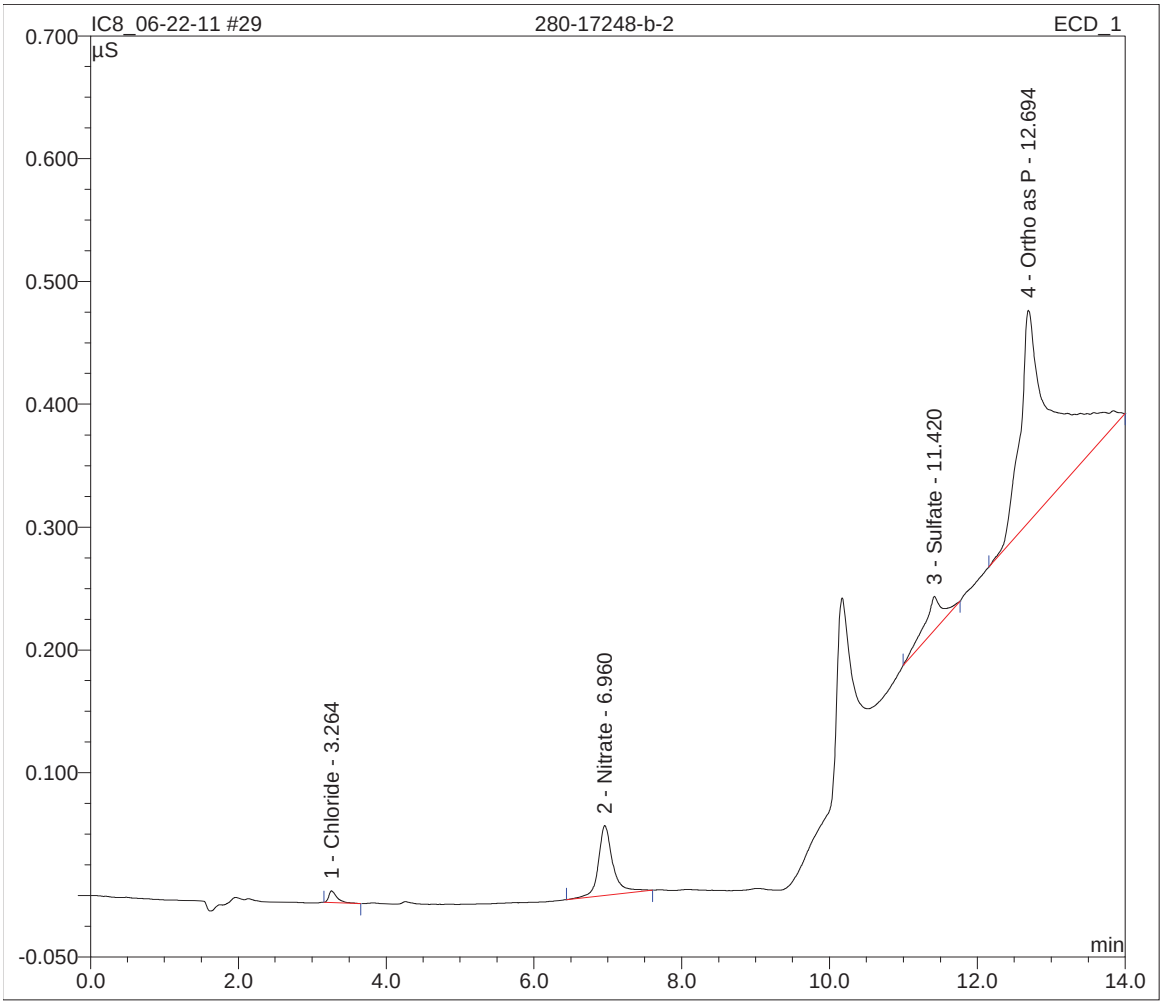
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 15:01**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMB	0.001	0.005	-0.0207
2	11.79	Sulfate	BMB	0.007	0.000	-0.0326
3	12.69	Ortho as P	BMB	0.108	0.274	-0.1260
		TOTAL:		0.12	0.28	-0.18



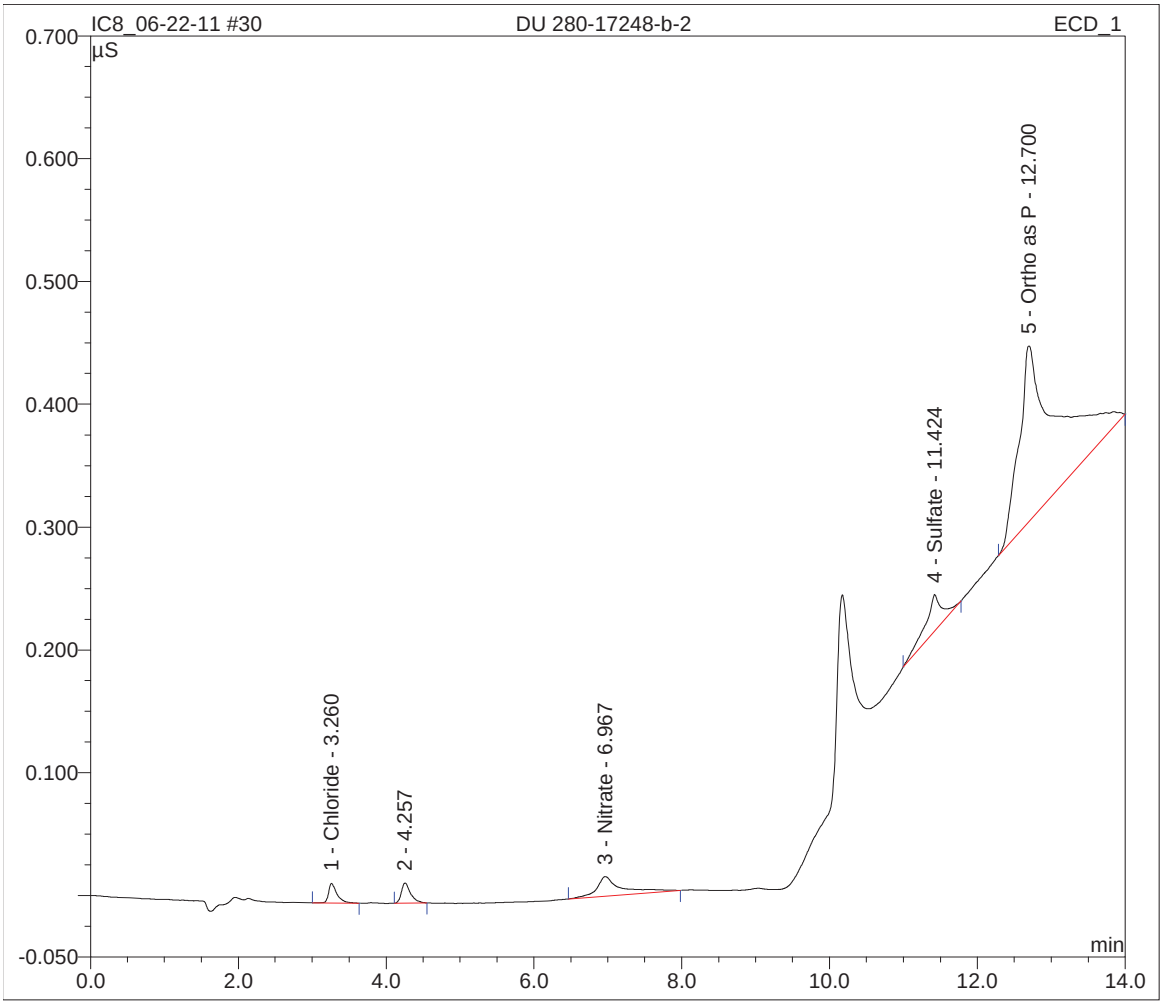
Sample Name:	**280-17248-b-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 15:18**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.26	Chloride	BMB	0.001	0.010	-0.0303
2	6.96	Nitrate	BMB	0.013	0.057	0.0209
3	11.42	Sulfate	BMB	0.007	0.027	-0.0323
4	12.69	Ortho as P	BMB	0.091	0.173	-0.1840
		TOTAL:		0.11	0.27	-0.23



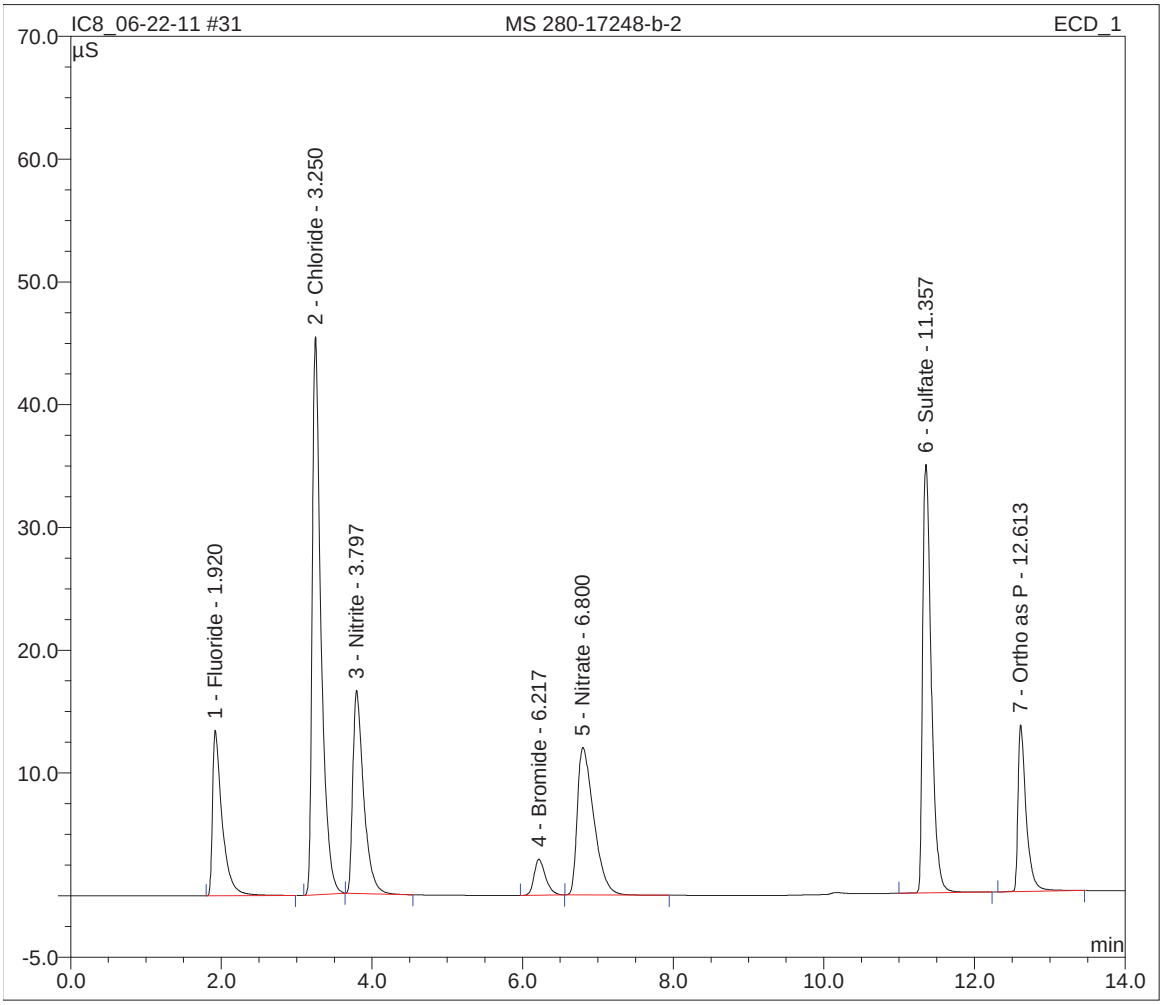
Sample Name:	**DU 280-17248-b-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 15:35**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.26	Chloride	BMB	0.002	0.016	-0.0265
3	6.97	Nitrate	BMB	0.006	0.016	0.0101
4	11.42	Sulfate	BMB	0.008	0.030	-0.0315
5	12.70	Ortho as P	BMB	0.084	0.143	-0.2078
TOTAL:				0.10	0.20	-0.26



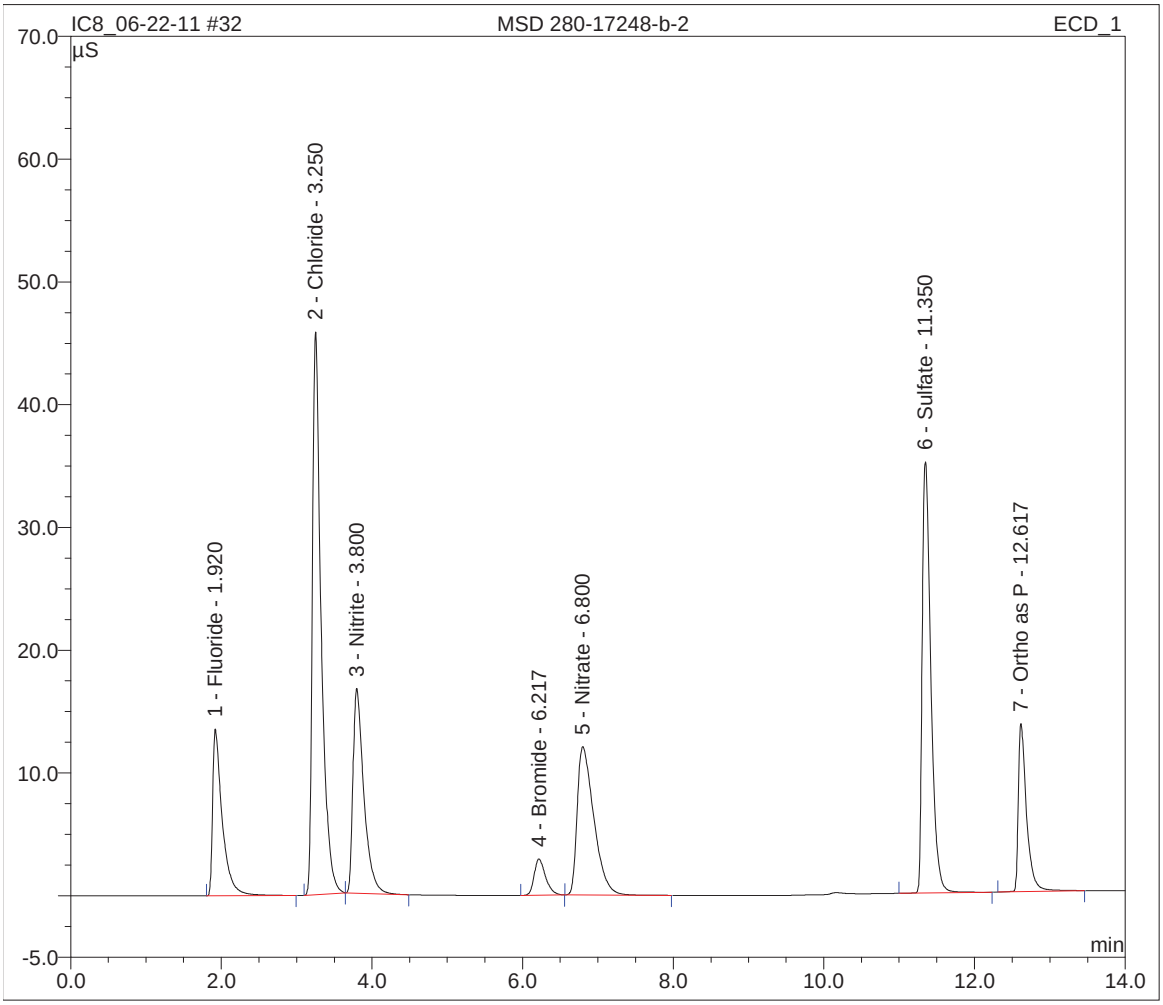
Sample Name:	**MS 280-17248-b-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 15:52**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	1.991	13.458	4.8693
2	3.25	Chloride	BMB	6.099	45.467	25.3821
3	3.80	Nitrite	BMB	2.749	16.531	5.1676
4	6.22	Bromide	BMB	0.515	2.938	5.1606
5	6.80	Nitrate	BMB	3.043	12.008	4.9591
6	11.36	Sulfate	BMB	4.663	34.896	25.3105
7	12.61	Ortho as P	BMB	1.718	13.562	5.1702
TOTAL:				20.78	138.86	76.02



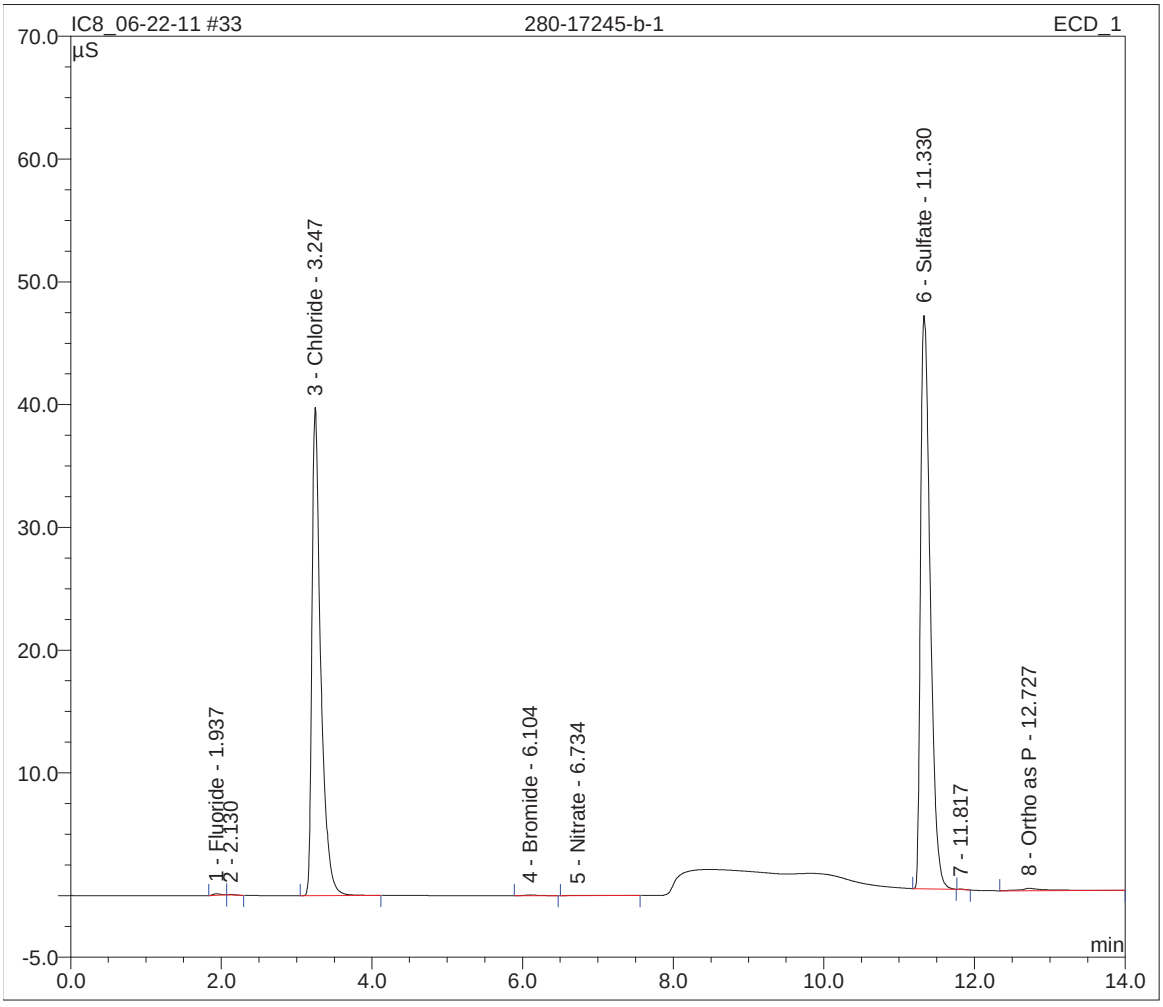
Sample Name:	**MSD 280-17248-b-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 16:08**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.013	13.567	4.9221
2	3.25	Chloride	BMb	6.176	45.850	25.7051
3	3.80	Nitrite	bMB	2.776	16.659	5.2172
4	6.22	Bromide	BMB	0.519	2.964	5.1958
5	6.80	Nitrate	BMB	3.086	12.082	5.0300
6	11.35	Sulfate	BMB	4.701	35.102	25.5183
7	12.62	Ortho as P	BMB	1.737	13.673	5.2319
		TOTAL:		21.01	139.90	76.82



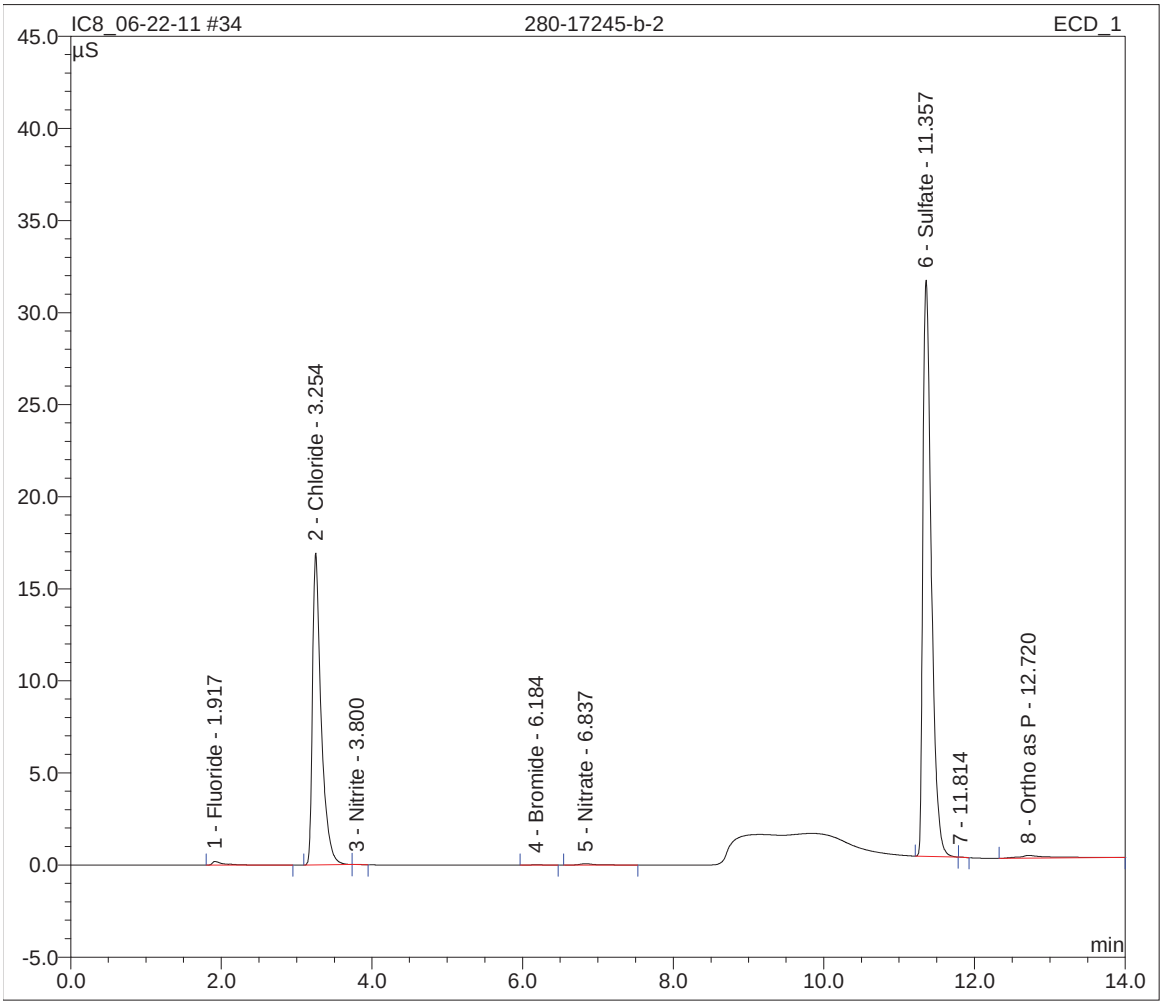
Sample Name:	**280-17245-b-1**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 16:25**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.94	Fluoride	BMb	0.014	0.120	0.0111
3	3.25	Chloride	BMB	5.371	39.743	22.3492
4	6.10	Bromide	BMB	0.009	0.056	0.1078
5	6.73	Nitrate	BMB	0.004	0.013	0.0061
6	11.33	Sulfate	BMB	6.967	46.709	37.8524
8	12.73	Ortho as P	BMB	0.082	0.192	-0.2122
		TOTAL:		12.45	86.83	60.11



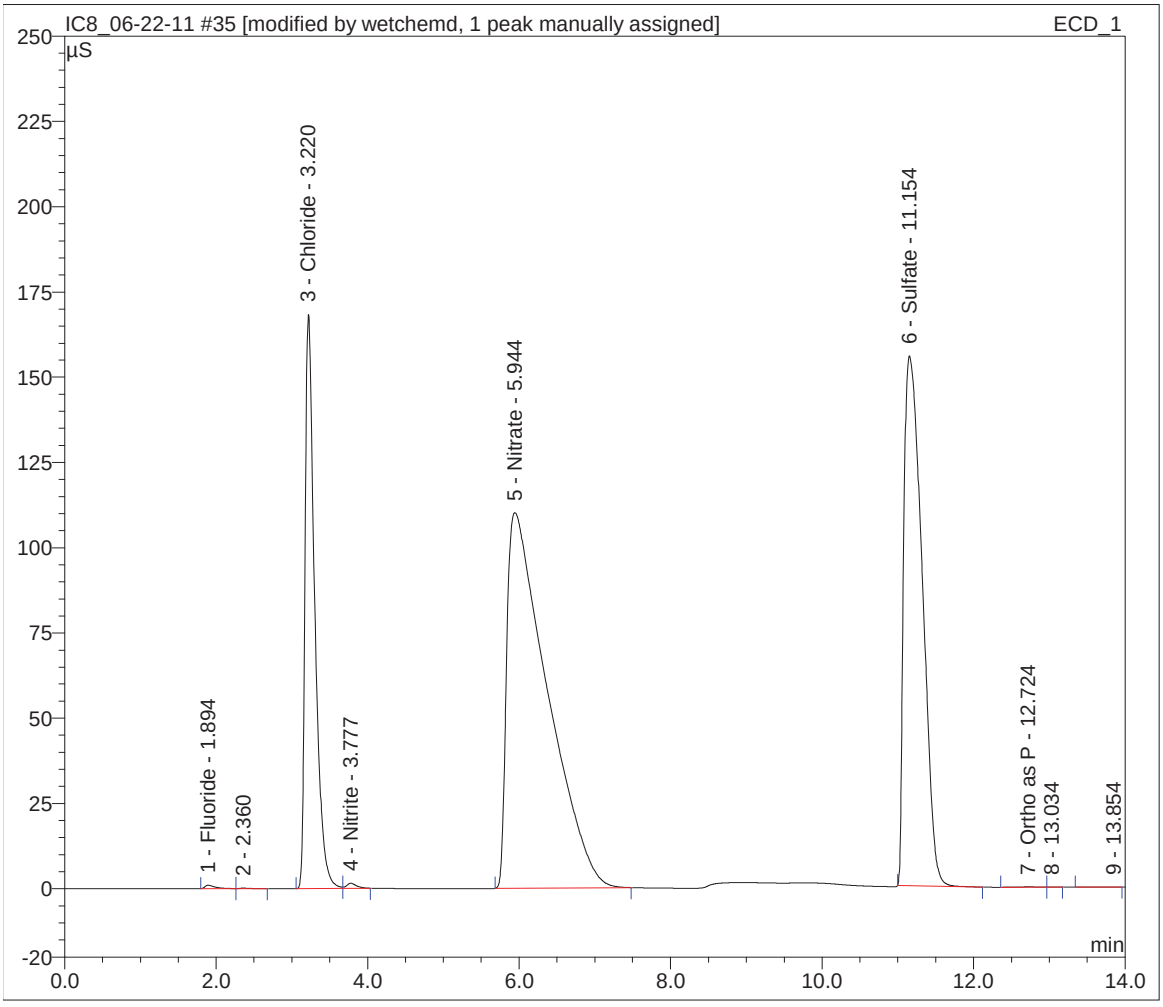
Sample Name:	**280-17245-b-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 16:42**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.034	0.193	0.0582
2	3.25	Chloride	BMb	2.256	16.938	9.3651
3	3.80	Nitrite	bMB	0.001	0.011	-0.0212
4	6.18	Bromide	BMB	0.003	0.018	0.0467
5	6.84	Nitrate	BMB	0.015	0.073	0.0246
6	11.36	Sulfate	BMB	4.077	31.296	22.1224
8	12.72	Ortho as P	BMB	0.076	0.151	-0.2325
		TOTAL:		6.46	48.68	31.36



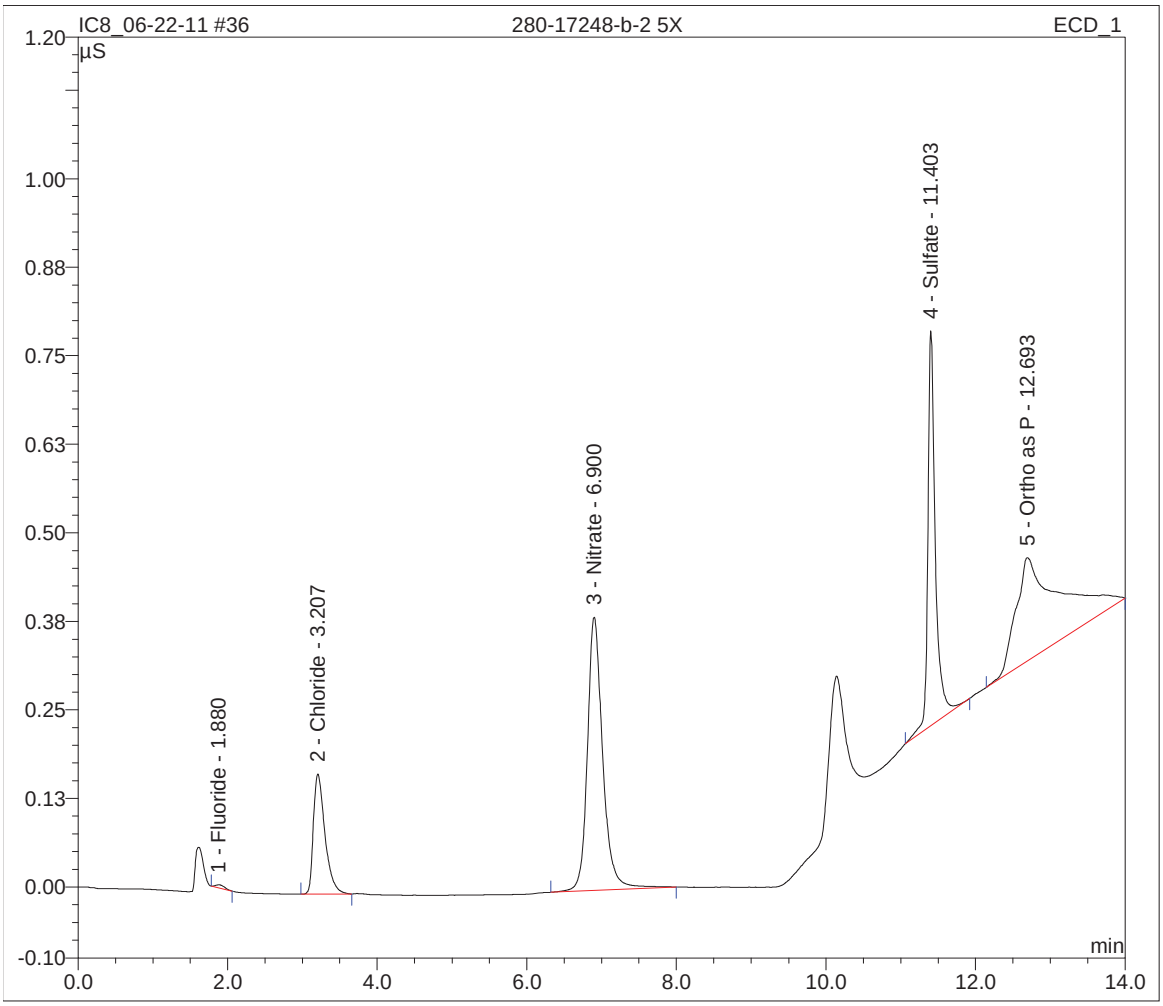
Sample Name:	**280-17245-a-3 2X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**2.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 16:59**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.89	Fluoride	BMb	0.157	1.003	0.7257
3	3.22	Chloride	BM *	25.023	168.368	208.4984
4	3.78	Nitrite	MB*	0.219	1.495	0.7791
5	5.94	Nitrate	BMB*^	67.865	110.123	221.2156
6	11.15	Sulfate	BMB	43.823	155.351	476.9931
7	12.72	Ortho as P	BMb	0.024	0.083	-0.8069
		TOTAL:		137.11	436.42	907.40



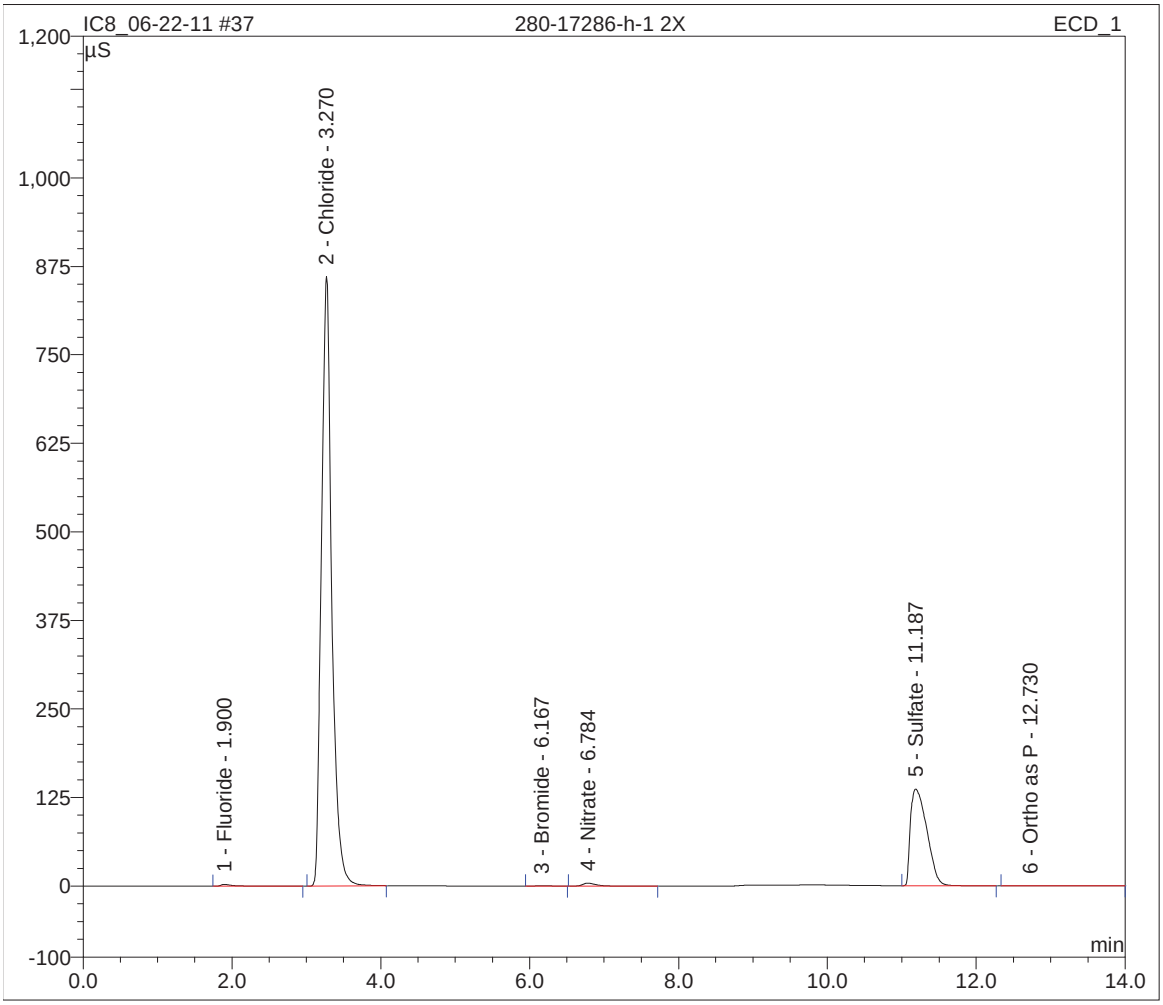
Sample Name:	**280-17248-b-2 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 17:16**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BMB	0.001	0.004	-0.1131
2	3.21	Chloride	BMB	0.030	0.169	0.4557
3	6.90	Nitrate	BMB	0.092	0.386	0.7478
4	11.40	Sulfate	BMB	0.064	0.558	1.3879
5	12.69	Ortho as P	BMB	0.098	0.146	-0.8085
		TOTAL:		0.28	1.26	1.67



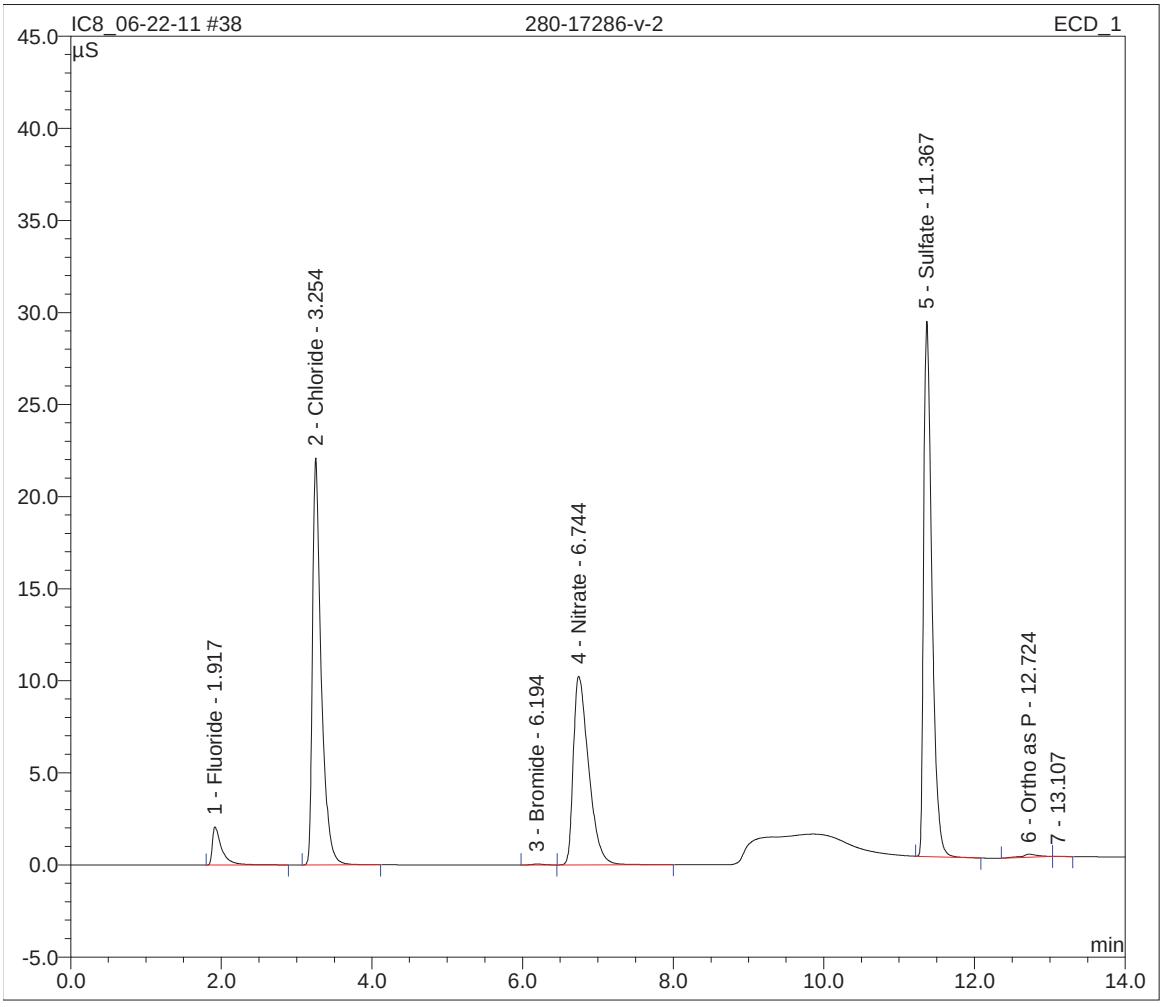
Sample Name:	**280-17286-h-1 2X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**2.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 18:12**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.90	Fluoride	BMB	0.400	2.406	1.9173
2	3.27	Chloride	BMB	138.657	860.450	1155.6376
3	6.17	Bromide	BMB	0.091	0.538	1.8519
4	6.78	Nitrate	BMB	0.826	4.123	2.6912
5	11.19	Sulfate	BMB	34.736	136.385	378.0563
6	12.73	Ortho as P	BMB	0.092	0.203	-0.3596
		TOTAL:		174.80	1004.11	1539.79



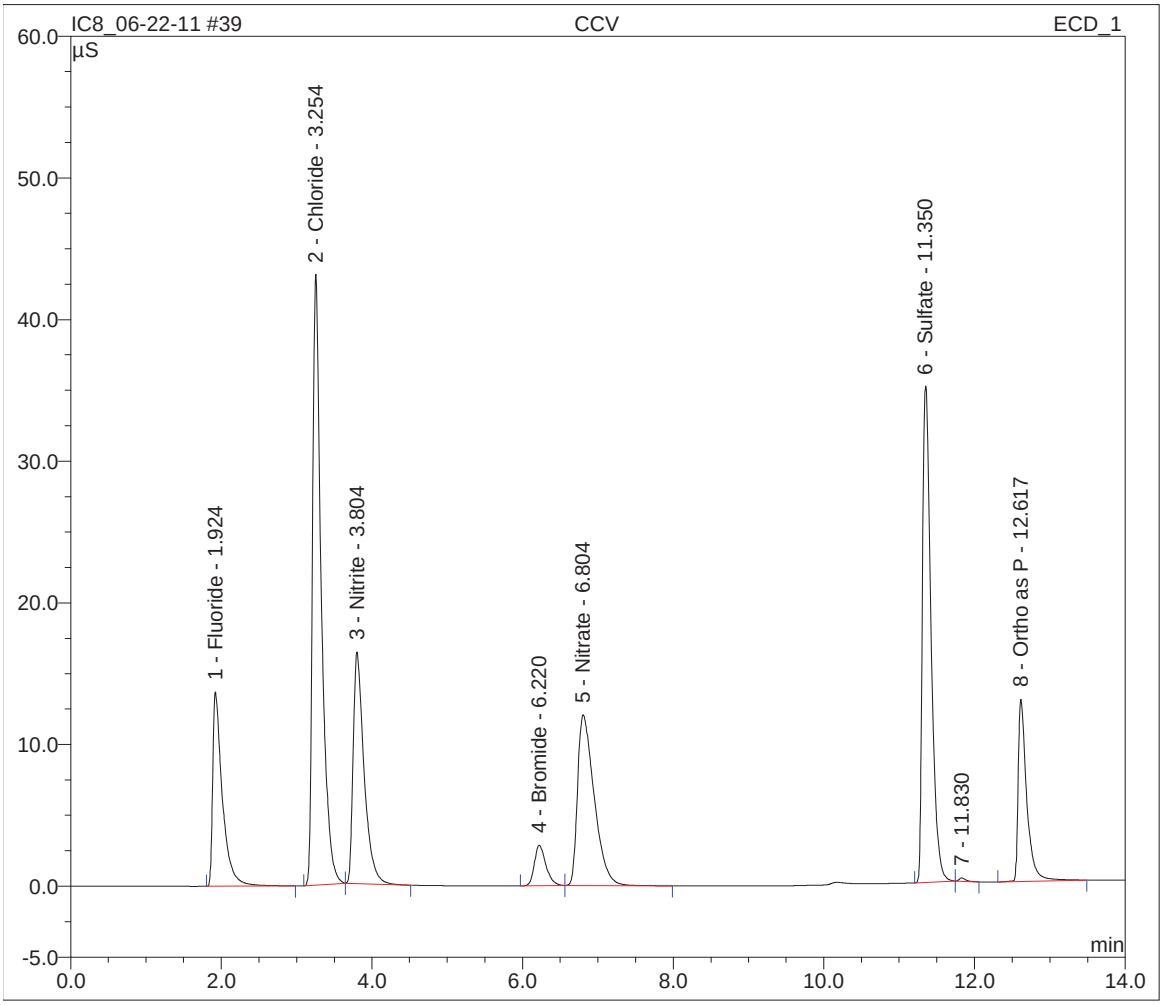
Sample Name:	**280-17286-v-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 18:29**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.297	2.072	0.7048
2	3.25	Chloride	BMB	2.957	22.098	12.2886
3	6.19	Bromide	BMB	0.008	0.051	0.1005
4	6.74	Nitrate	BMB	2.413	10.251	3.9325
5	11.37	Sulfate	BMB	3.698	29.077	20.0601
6	12.72	Ortho as P	BMb	0.038	0.163	-0.3570
		TOTAL:		9.41	63.71	36.73



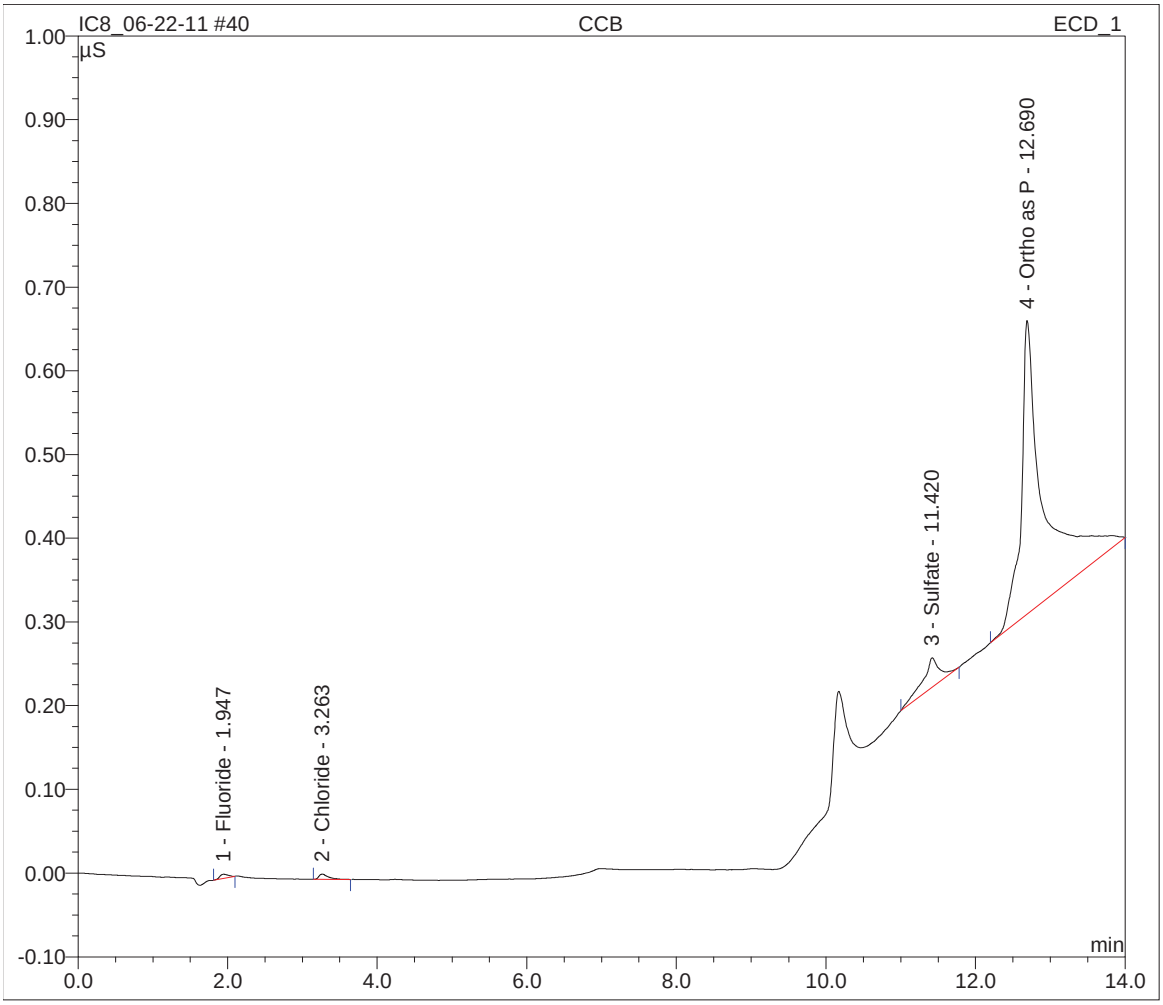
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 18:45**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.044	13.702	4.9980
2	3.25	Chloride	BMB	5.832	43.122	24.2678
3	3.80	Nitrite	BMB	2.730	16.351	5.1315
4	6.22	Bromide	BMB	0.506	2.869	5.0723
5	6.80	Nitrate	BMB	3.076	12.038	5.0135
6	11.35	Sulfate	BMb	4.672	35.027	25.3606
8	12.62	Ortho as P	BMB	1.698	12.849	5.1057
		TOTAL:		20.56	135.96	74.95



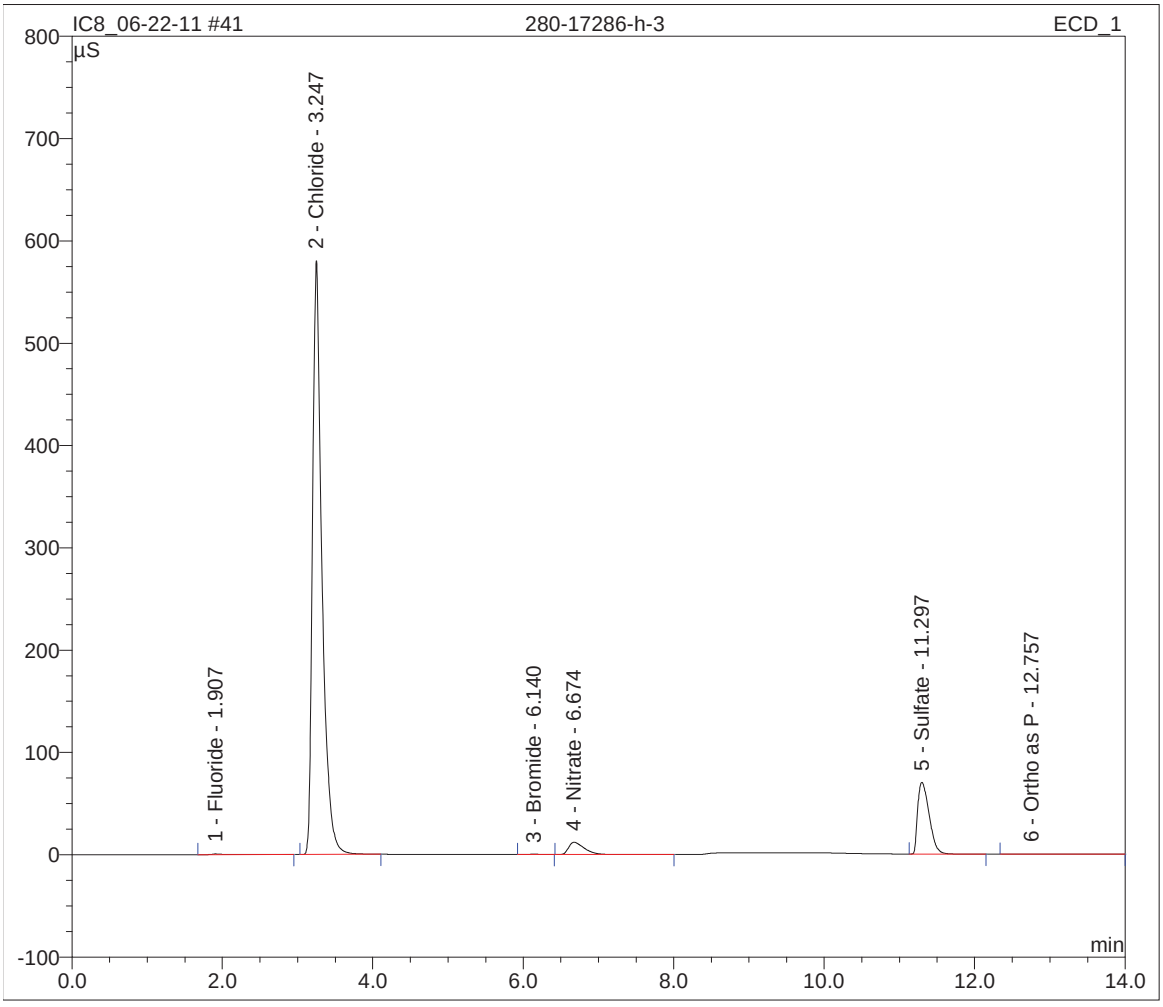
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 19:02**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	0.001	0.005	-0.0226
2	3.26	Chloride	BMB	0.001	0.006	-0.0317
3	11.42	Sulfate	BMB	0.009	0.035	-0.0234
4	12.69	Ortho as P	BMB	0.125	0.350	-0.0732
		TOTAL:		0.14	0.40	-0.15



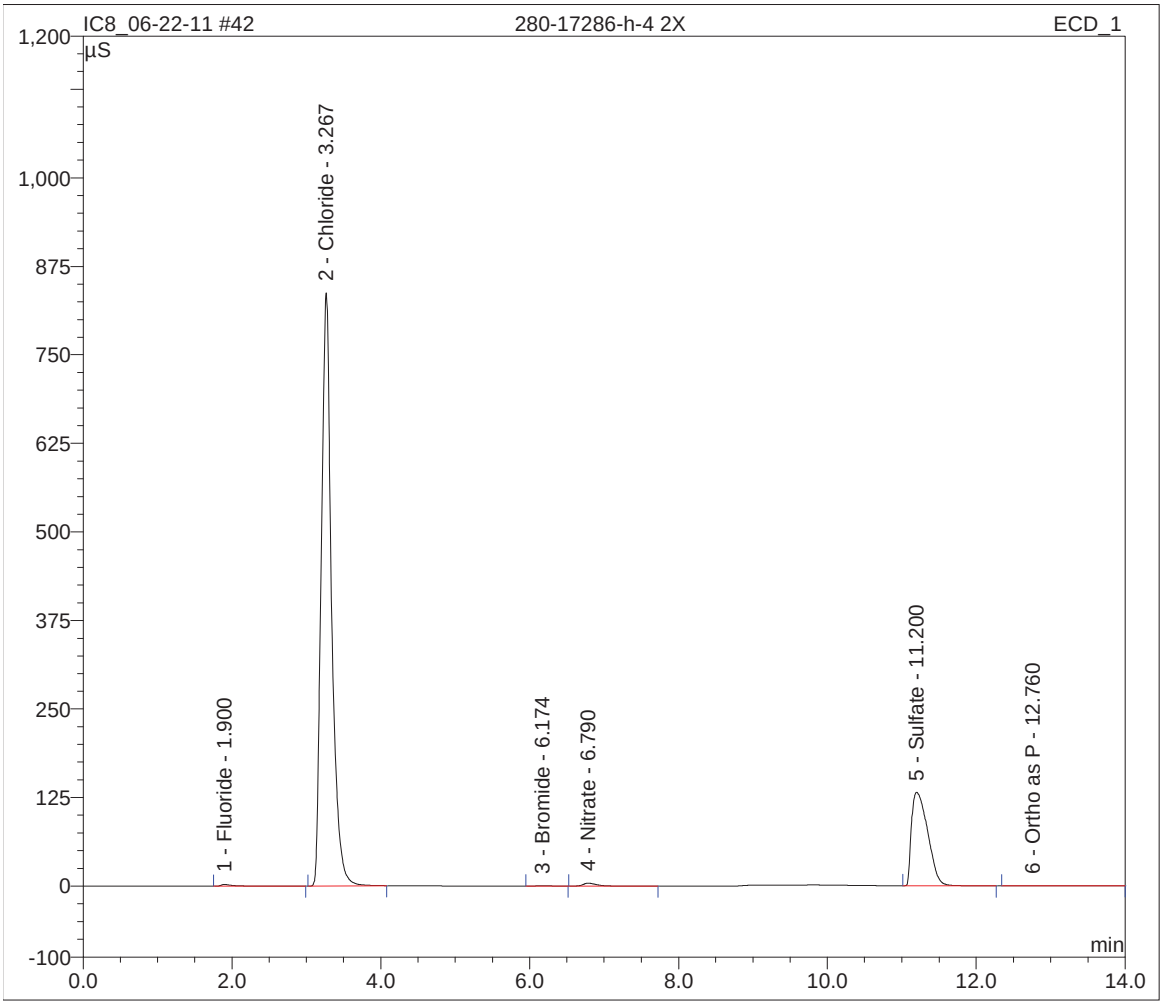
Sample Name:	**280-17286-h-3**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 19:19**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.91	Fluoride	BMB	0.109	0.640	0.2430
2	3.25	Chloride	BMB	83.887	580.303	349.5638
3	6.14	Bromide	BMB	0.060	0.368	0.6146
4	6.67	Nitrate	BMB	2.904	11.945	4.7322
5	11.30	Sulfate	BMB	12.366	70.091	67.2467
6	12.76	Ortho as P	BMB	0.075	0.127	-0.2371
		TOTAL:		99.40	663.47	422.16



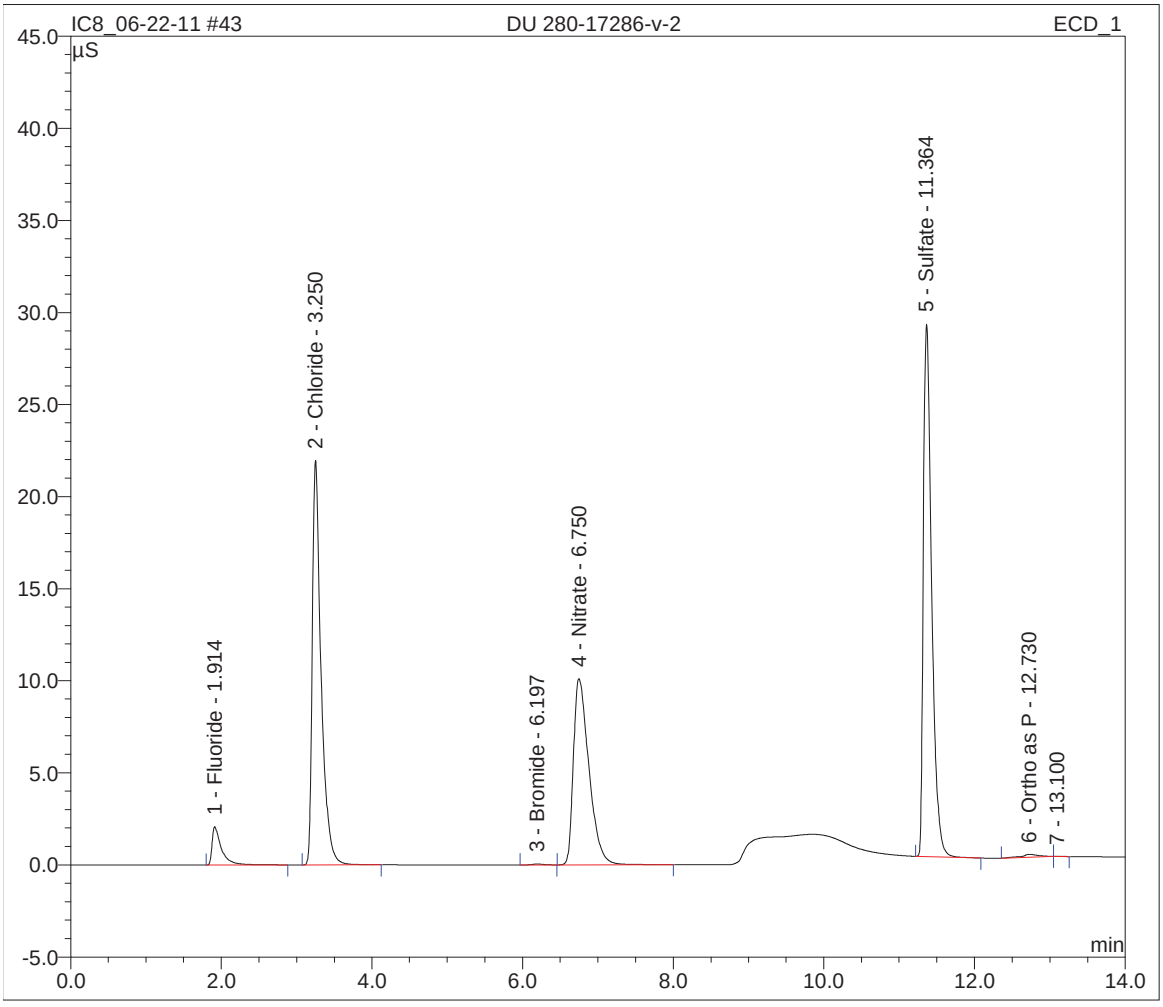
Sample Name:	**280-17286-h-4 2X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**2.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 19:36**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.90	Fluoride	BMB	0.392	2.295	1.8763
2	3.27	Chloride	BMB	134.526	837.569	1121.2089
3	6.17	Bromide	BMB	0.089	0.518	1.8141
4	6.79	Nitrate	BMB	0.834	4.083	2.7169
5	11.20	Sulfate	BMB	33.186	131.886	361.1849
6	12.76	Ortho as P	BMB	0.088	0.172	-0.3864
		TOTAL:		169.11	976.52	1488.41



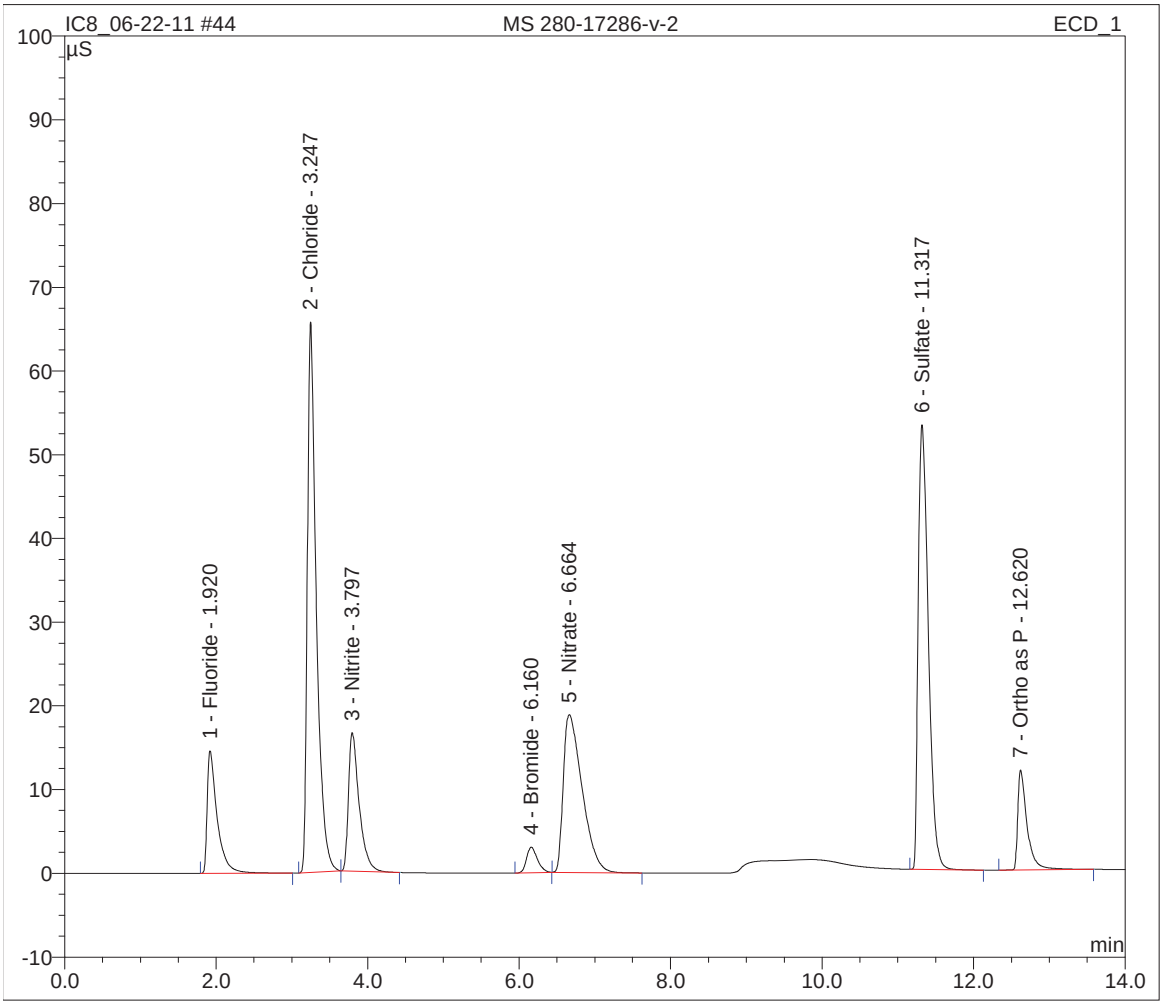
Sample Name:	**DU 280-17286-v-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 19:53**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.91	Fluoride	BMB	0.298	2.075	0.7073
2	3.25	Chloride	BMB	2.962	21.964	12.3093
3	6.20	Bromide	BMB	0.008	0.051	0.1003
4	6.75	Nitrate	BMB	2.414	10.105	3.9345
5	11.36	Sulfate	BMB	3.703	28.925	20.0834
6	12.73	Ortho as P	BMb	0.039	0.156	-0.3556
		TOTAL:		9.42	63.28	36.78



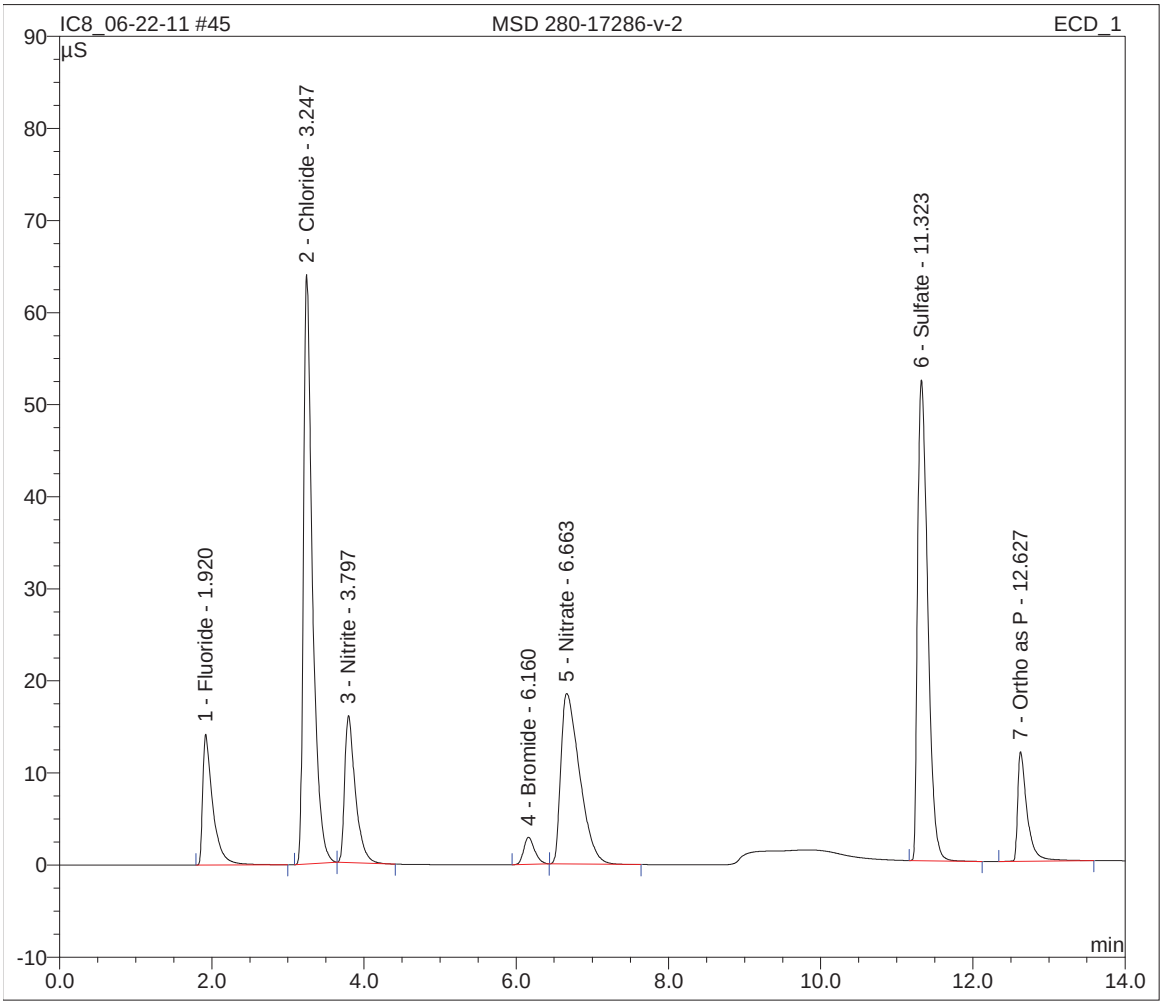
Sample Name:	**MS 280-17286-v-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 20:09**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.240	14.616	5.4790
2	3.25	Chloride	BMb	9.009	65.763	37.5104
3	3.80	Nitrite	bMB	2.714	16.536	5.1015
4	6.16	Bromide	BMB	0.508	3.065	5.0837
5	6.66	Nitrate	BMB	5.416	18.845	8.8273
6	11.32	Sulfate	BMB	8.239	53.111	44.7771
7	12.62	Ortho as P	BMB	1.713	11.953	5.1549
		TOTAL:		29.84	183.89	111.93



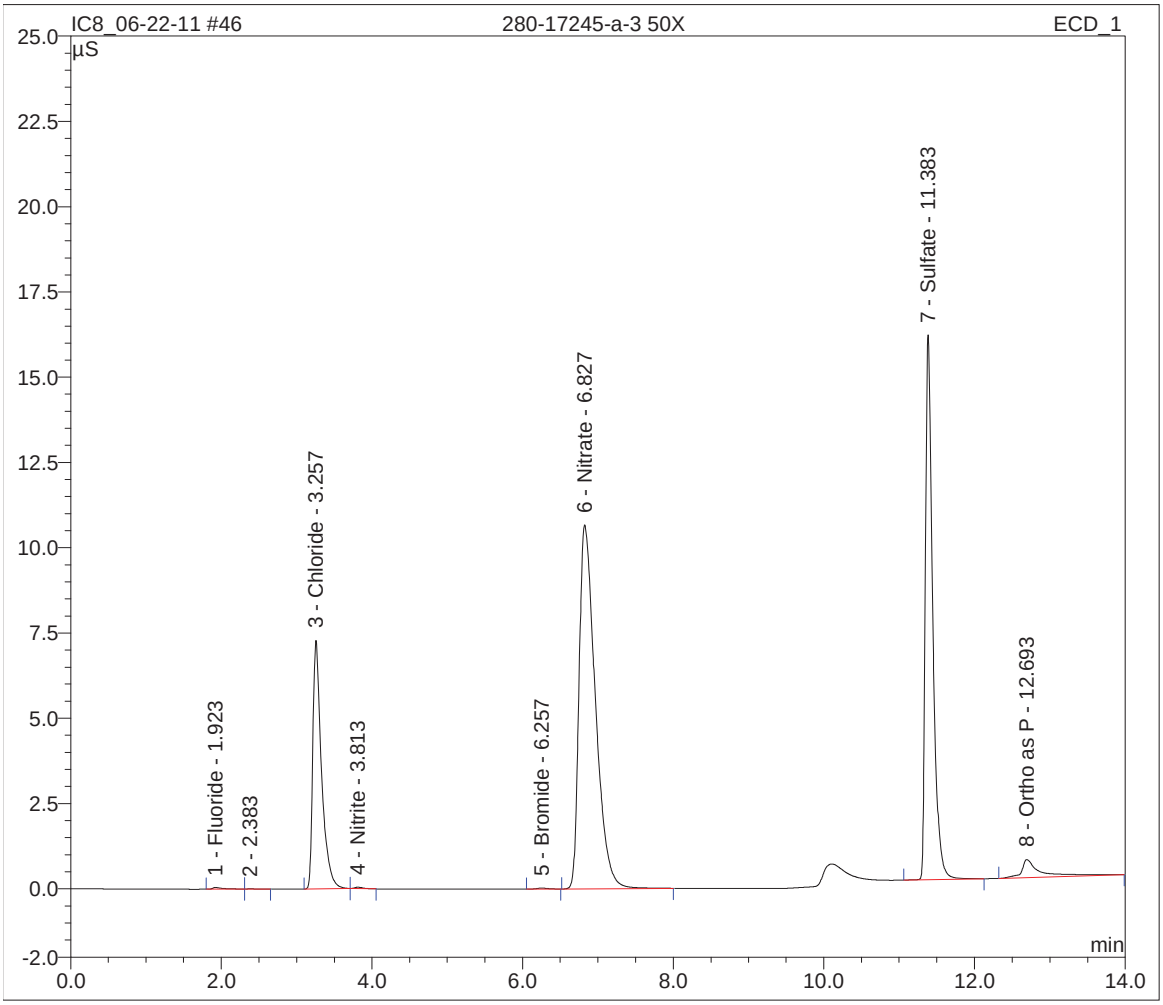
Sample Name:	**MSD 280-17286-v-2**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 20:26**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.168	14.195	5.3042
2	3.25	Chloride	BMb	8.759	64.028	36.4670
3	3.80	Nitrite	bMB	2.610	15.969	4.9045
4	6.16	Bromide	BMB	0.487	2.939	4.8817
5	6.66	Nitrate	BMB	5.291	18.508	8.6235
6	11.32	Sulfate	BMB	8.047	52.193	43.7366
7	12.63	Ortho as P	BMB	1.707	11.900	5.1343
		TOTAL:		29.07	179.73	109.05



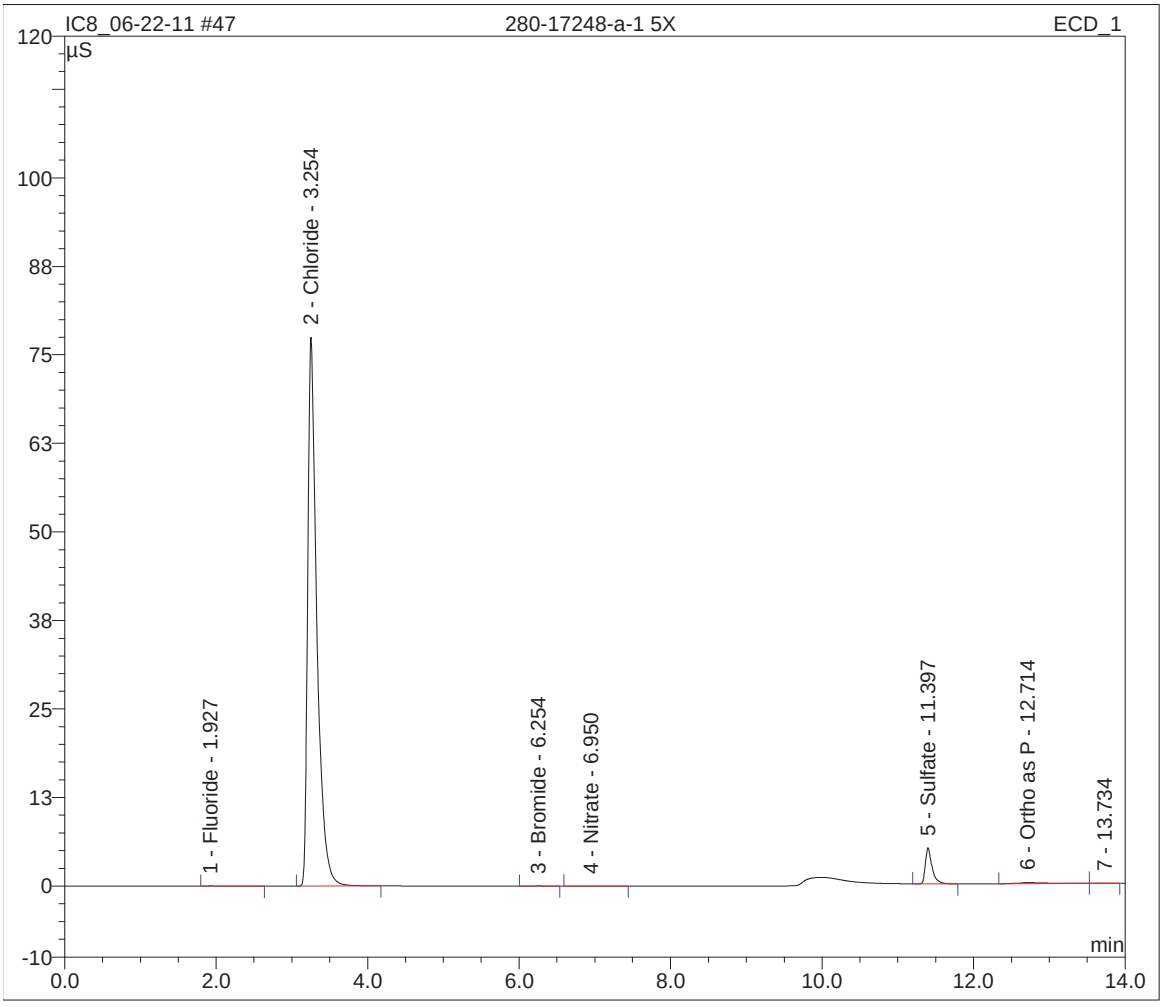
Sample Name:	**280-17245-a-3 50X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**50.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 20:43**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMb	0.007	0.047	-0.3416
3	3.26	Chloride	BMb	0.978	7.291	201.9319
4	3.81	Nitrite	bMB	0.005	0.043	-0.6656
5	6.26	Bromide	BMB	0.005	0.028	3.2373
6	6.83	Nitrate	BMB	2.676	10.669	218.1027
7	11.38	Sulfate	BMB	1.821	15.981	492.0261
8	12.69	Ortho as P	BMB	0.154	0.529	1.2570
TOTAL:				5.65	34.59	915.55



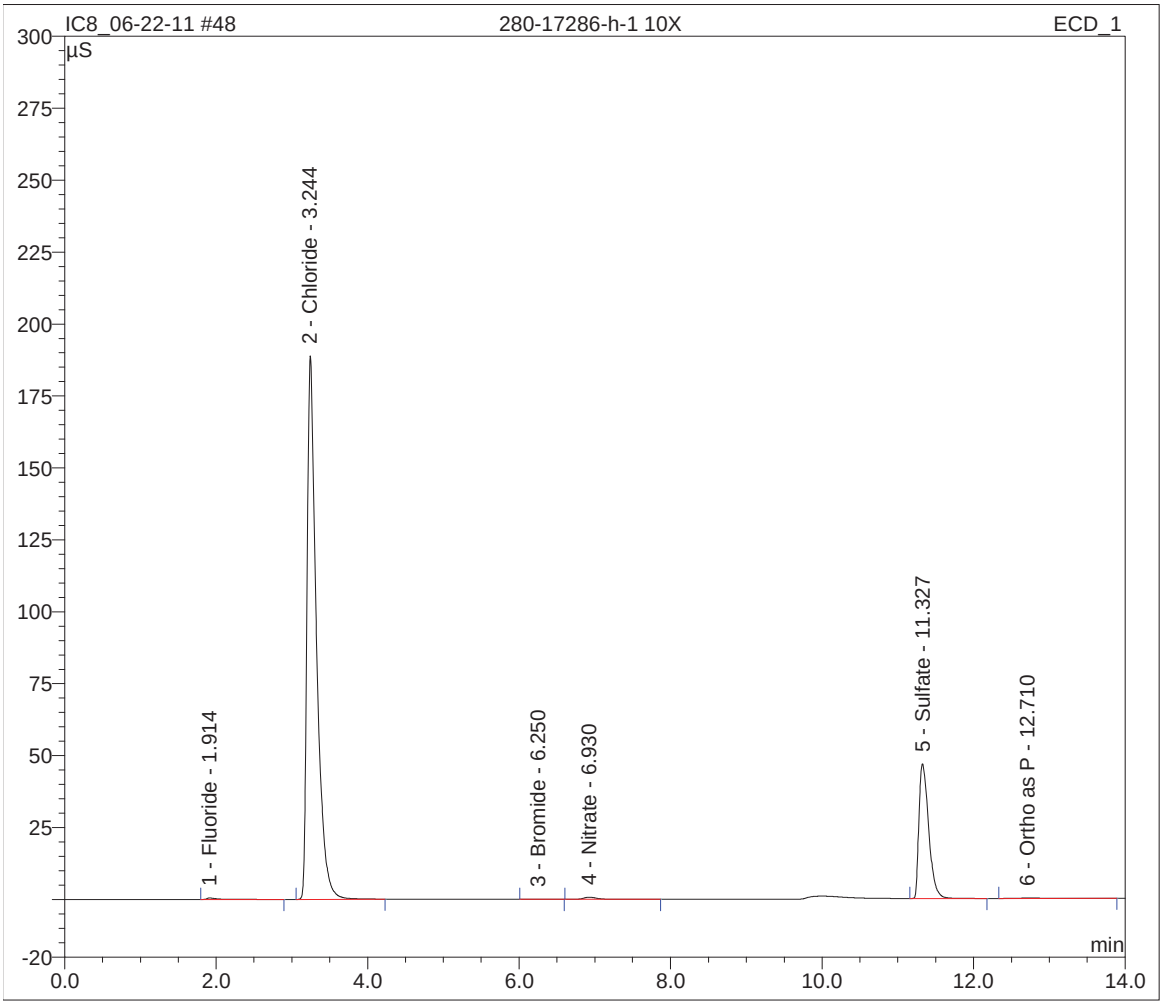
Sample Name:	**280-17248-a-1 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 21:00**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.93	Fluoride	BMB	0.006	0.032	-0.0445
2	3.25	Chloride	BMB	10.881	77.511	226.5559
3	6.25	Bromide	BMB	0.004	0.022	0.2753
4	6.95	Nitrate	BMB	0.002	0.007	0.0184
5	11.40	Sulfate	BMB	0.517	5.095	13.7166
6	12.71	Ortho as P	BMB	0.066	0.170	-1.3335
		TOTAL:		11.48	82.84	239.19



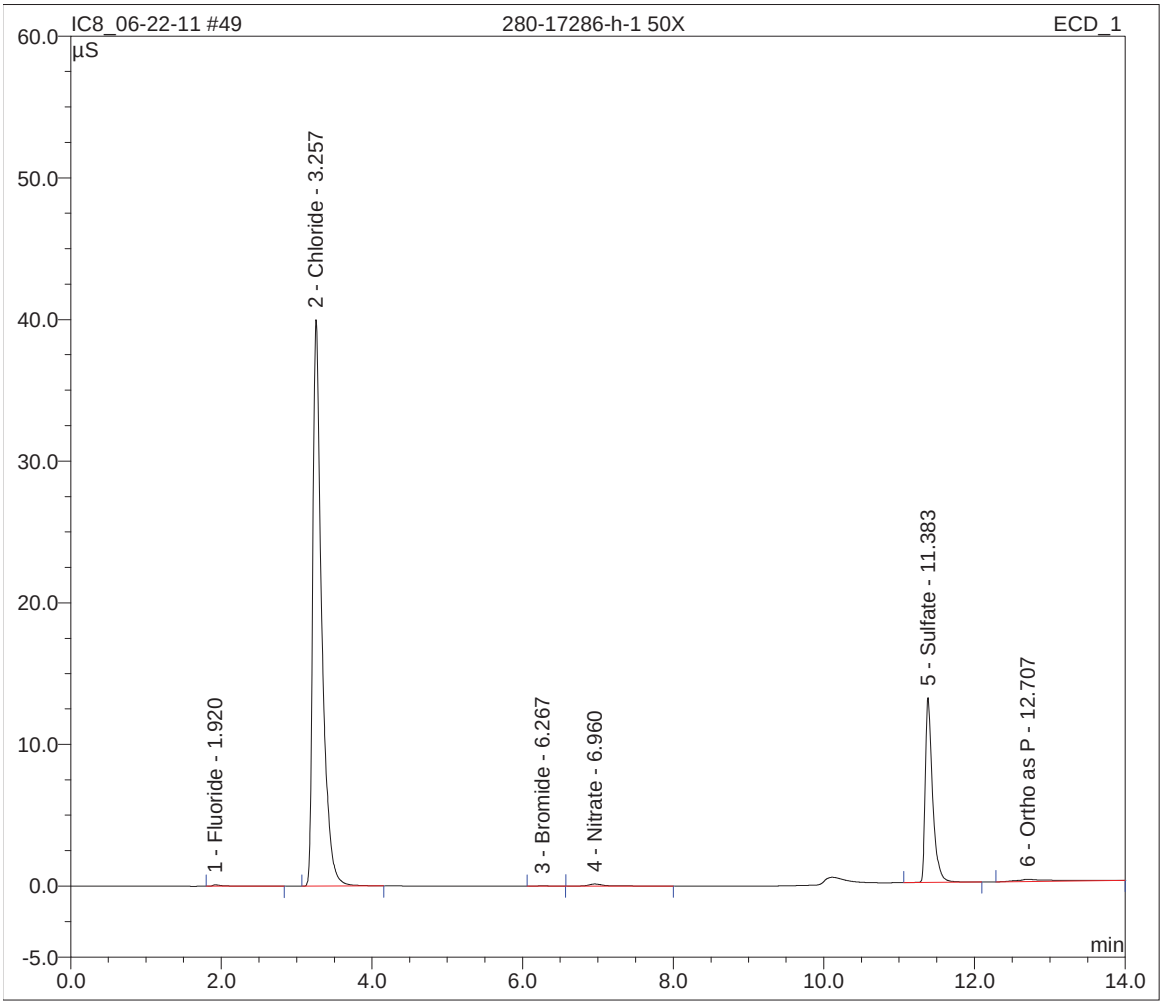
Sample Name:	**280-17286-h-1 10X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 21:17**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.91	Fluoride	BMB	0.075	0.502	1.6028
2	3.24	Chloride	BMB	27.264	188.791	1135.8986
3	6.25	Bromide	BMB	0.015	0.088	1.7226
4	6.93	Nitrate	BMB	0.152	0.756	2.4828
5	11.33	Sulfate	BMB	6.968	46.739	378.6101
6	12.71	Ortho as P	BMB	0.075	0.158	-2.3474
		TOTAL:		34.55	237.04	1517.97



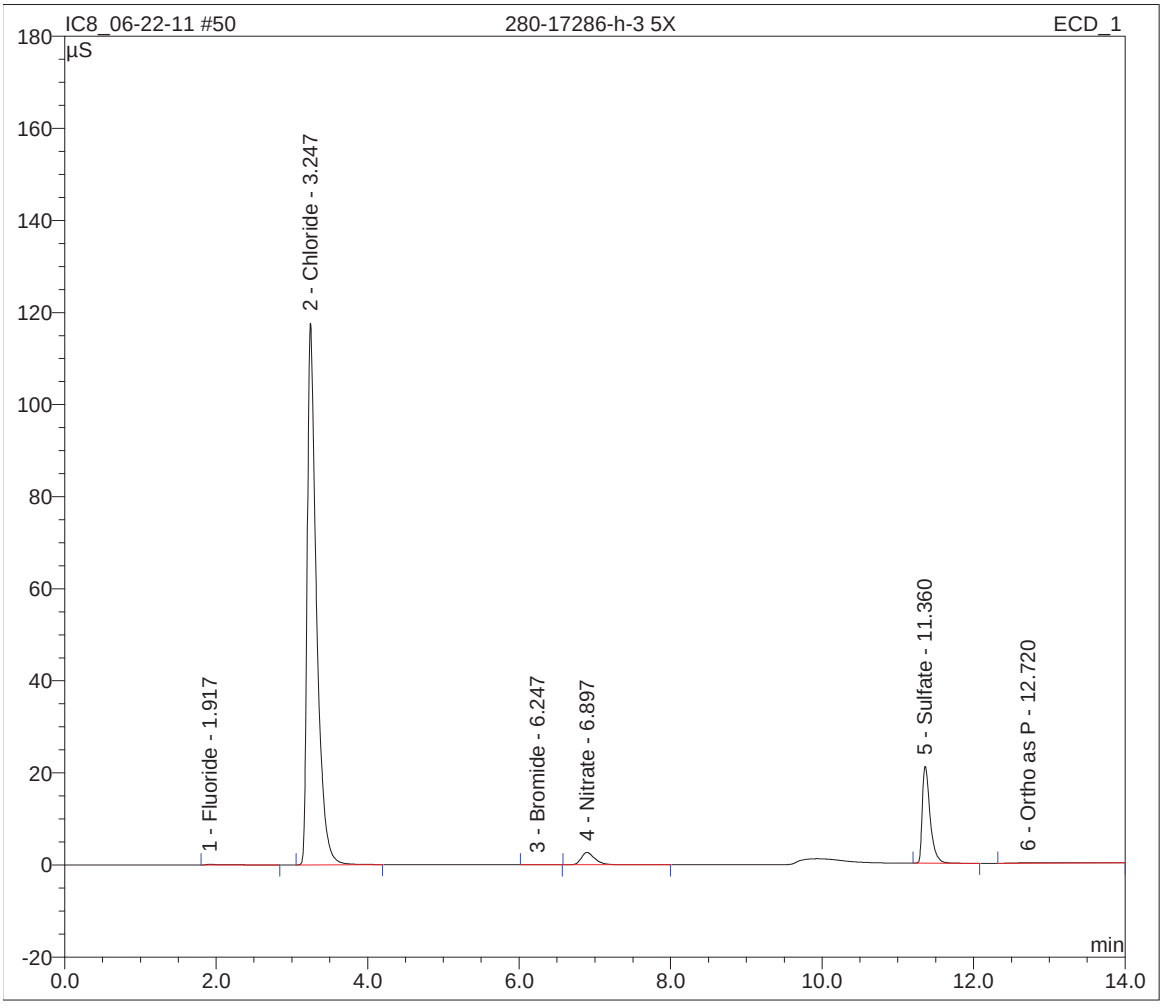
Sample Name:	**280-17286-h-1 50X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**50.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 21:33**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.015	0.093	0.6159
2	3.26	Chloride	BMB	5.540	39.993	1152.6505
3	6.27	Bromide	BMB	0.003	0.016	2.2637
4	6.96	Nitrate	BMB	0.032	0.144	2.5851
5	11.38	Sulfate	BMB	1.461	13.028	394.0897
6	12.71	Ortho as P	BMB	0.089	0.154	-9.4612
		TOTAL:		7.14	53.43	1542.74



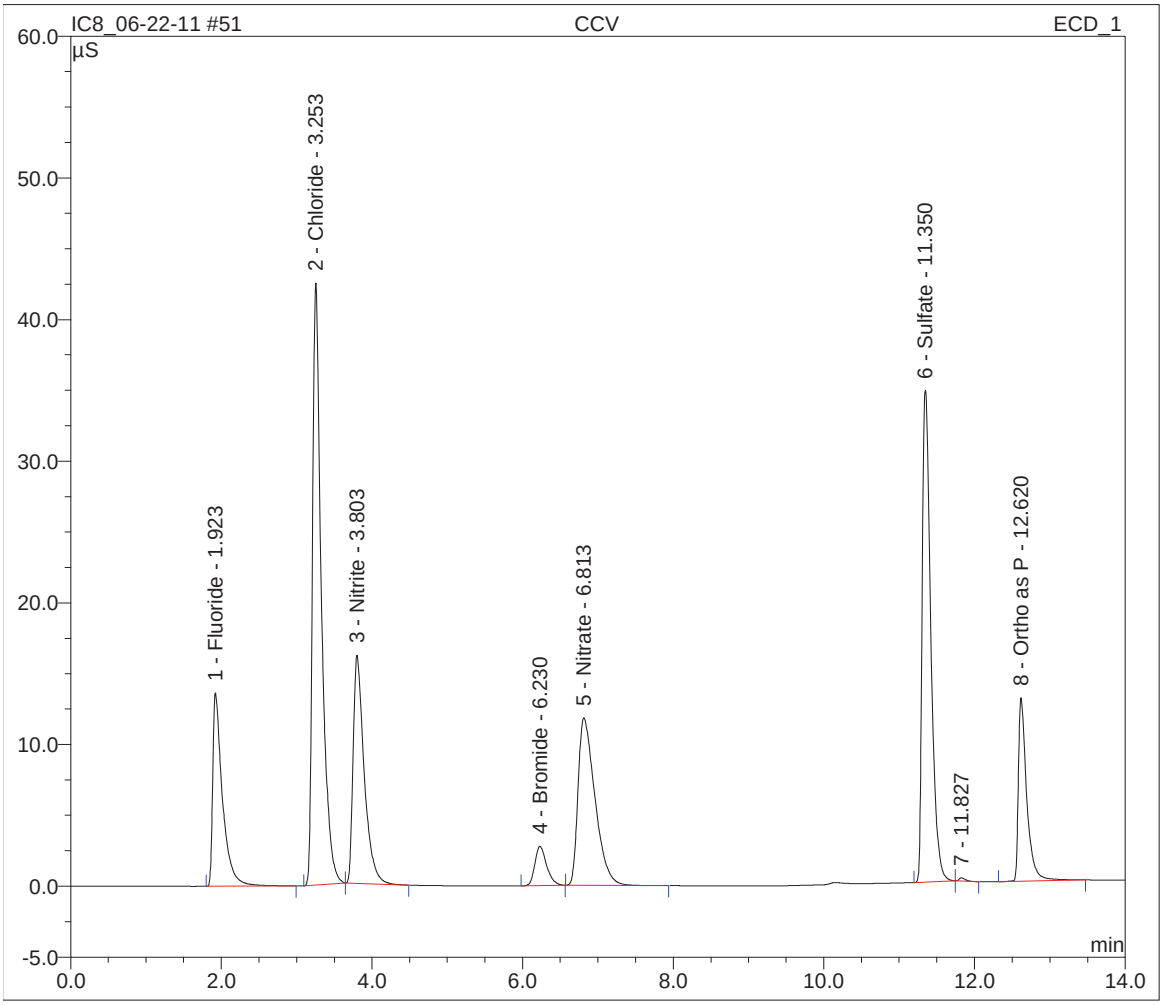
Sample Name:	**280-17286-h-3 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 21:50**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.020	0.124	0.1273
2	3.25	Chloride	BMB	16.764	117.696	349.1452
3	6.25	Bromide	BMB	0.010	0.059	0.6105
4	6.90	Nitrate	BMB	0.560	2.681	4.5599
5	11.36	Sulfate	BMB	2.513	20.982	68.0248
6	12.72	Ortho as P	BMB	0.073	0.115	-1.2198
		TOTAL:		19.94	141.66	421.25



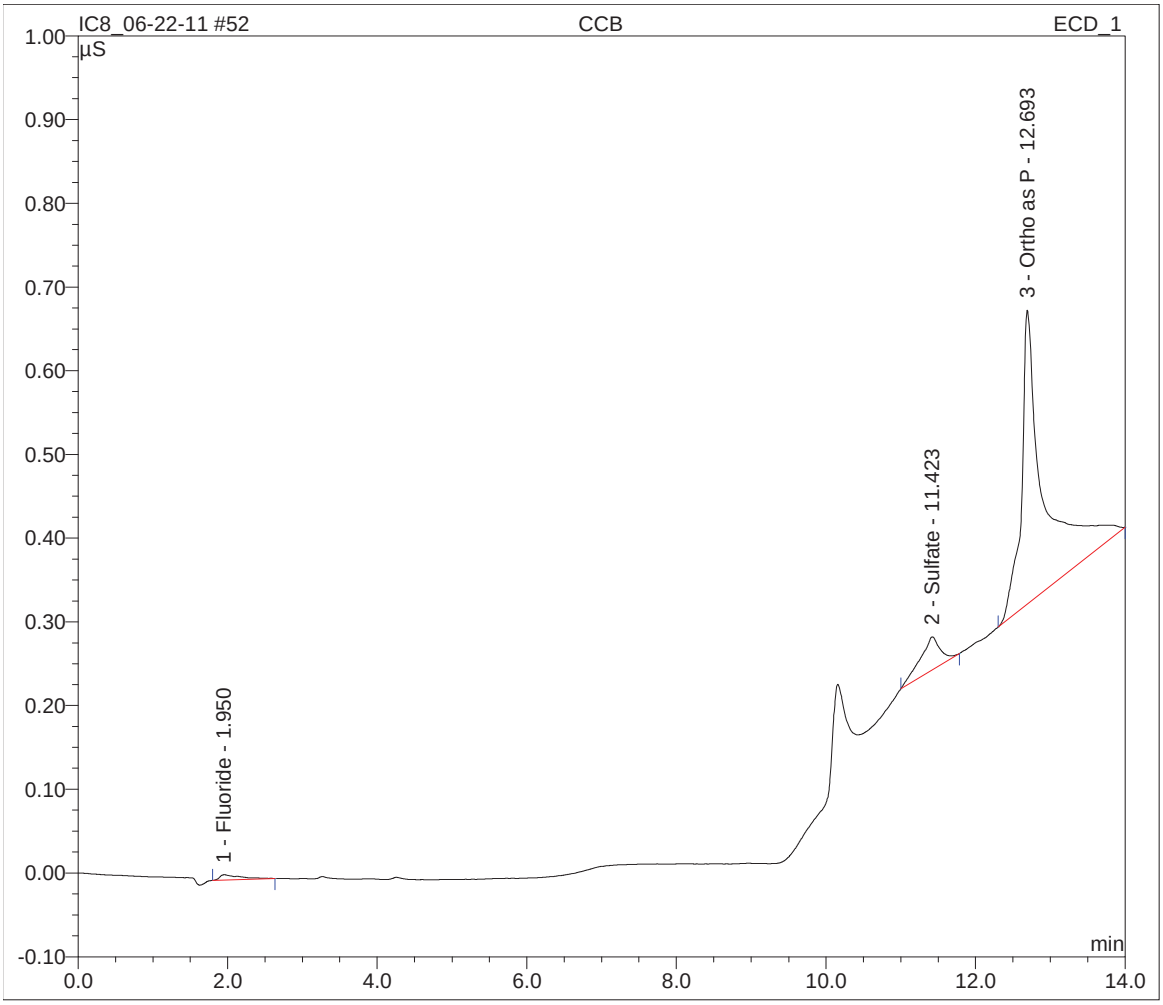
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 22:07**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.042	13.641	4.9939
2	3.25	Chloride	BMB	5.840	42.505	24.3039
3	3.80	Nitrite	BMB	2.729	16.114	5.1288
4	6.23	Bromide	BMB	0.505	2.787	5.0583
5	6.81	Nitrate	BMB	3.076	11.820	5.0125
6	11.35	Sulfate	BMb	4.646	34.712	25.2221
8	12.62	Ortho as P	BMB	1.677	12.948	5.0352
		TOTAL:		20.51	134.53	74.75



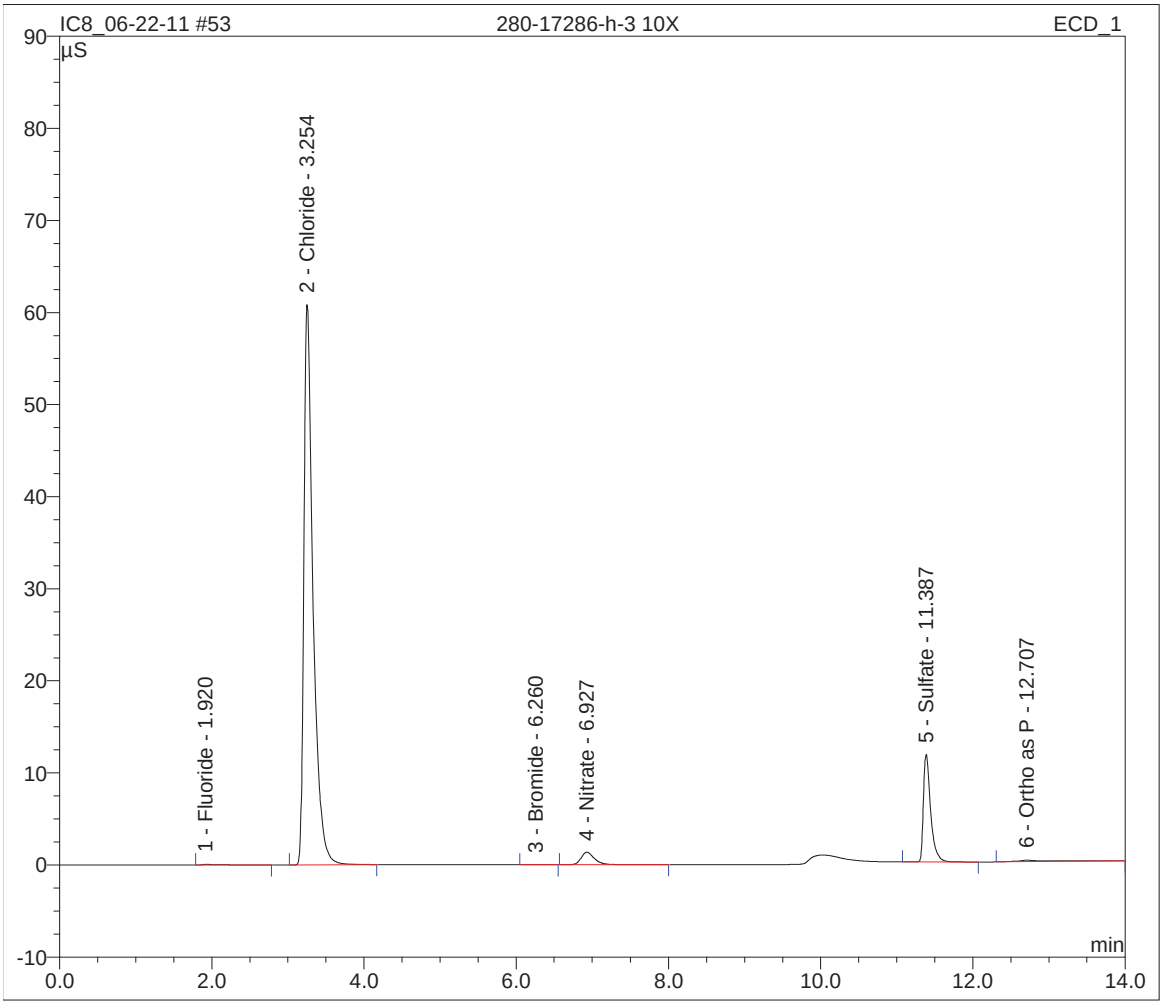
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 22:24**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	0.002	0.006	-0.0191
2	11.42	Sulfate	BMB	0.013	0.040	-0.0046
3	12.69	Ortho as P	BMB	0.123	0.351	-0.0767
		TOTAL:		0.14	0.40	-0.10



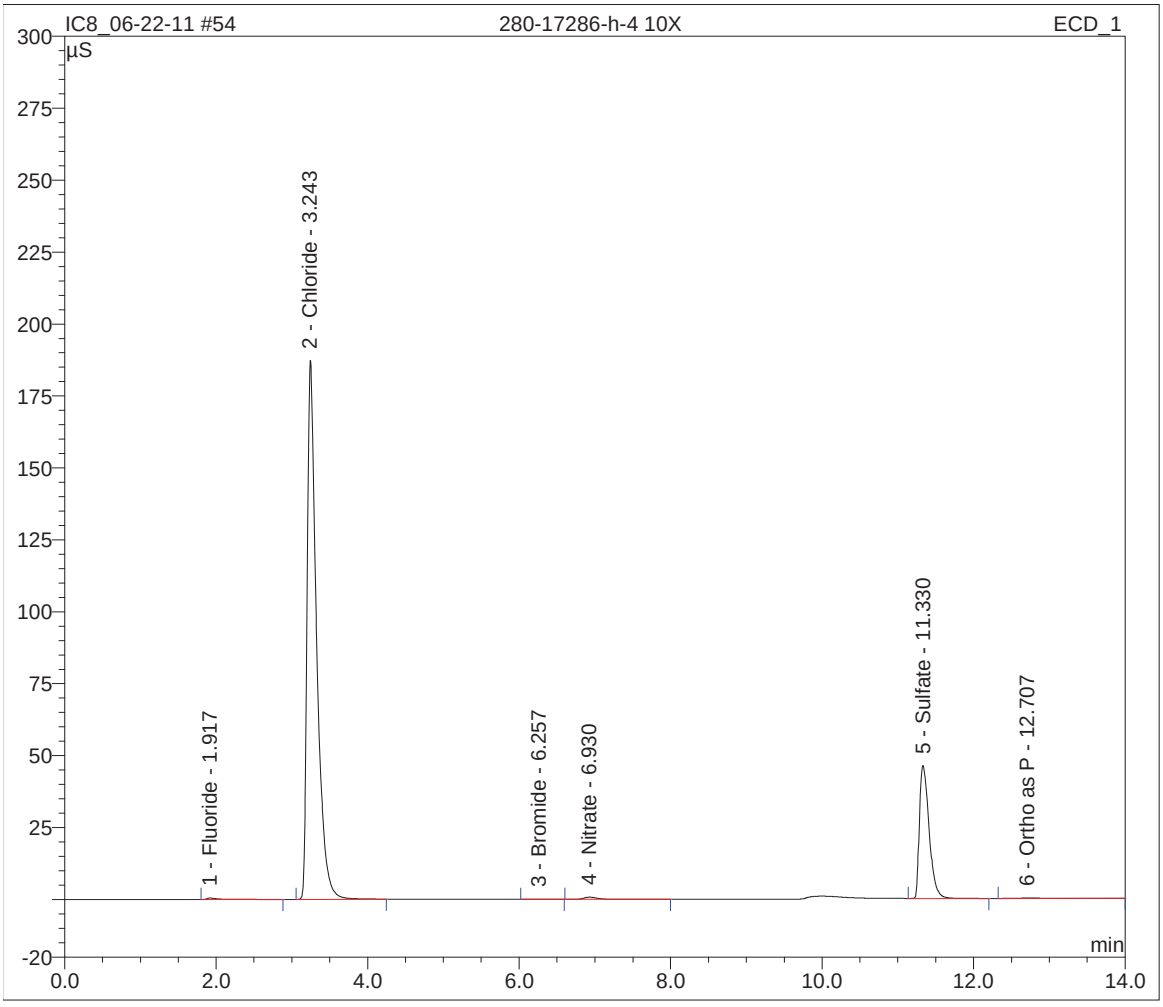
Sample Name:	**280-17286-h-3 10X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 22:41**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.011	0.063	0.0321
2	3.25	Chloride	BMB	8.499	60.864	353.8470
3	6.26	Bromide	BMB	0.005	0.029	0.6718
4	6.93	Nitrate	BMB	0.279	1.357	4.5386
5	11.39	Sulfate	BMB	1.273	11.680	68.5679
6	12.71	Ortho as P	BMB	0.087	0.165	-1.9509
		TOTAL:		10.15	74.16	425.71



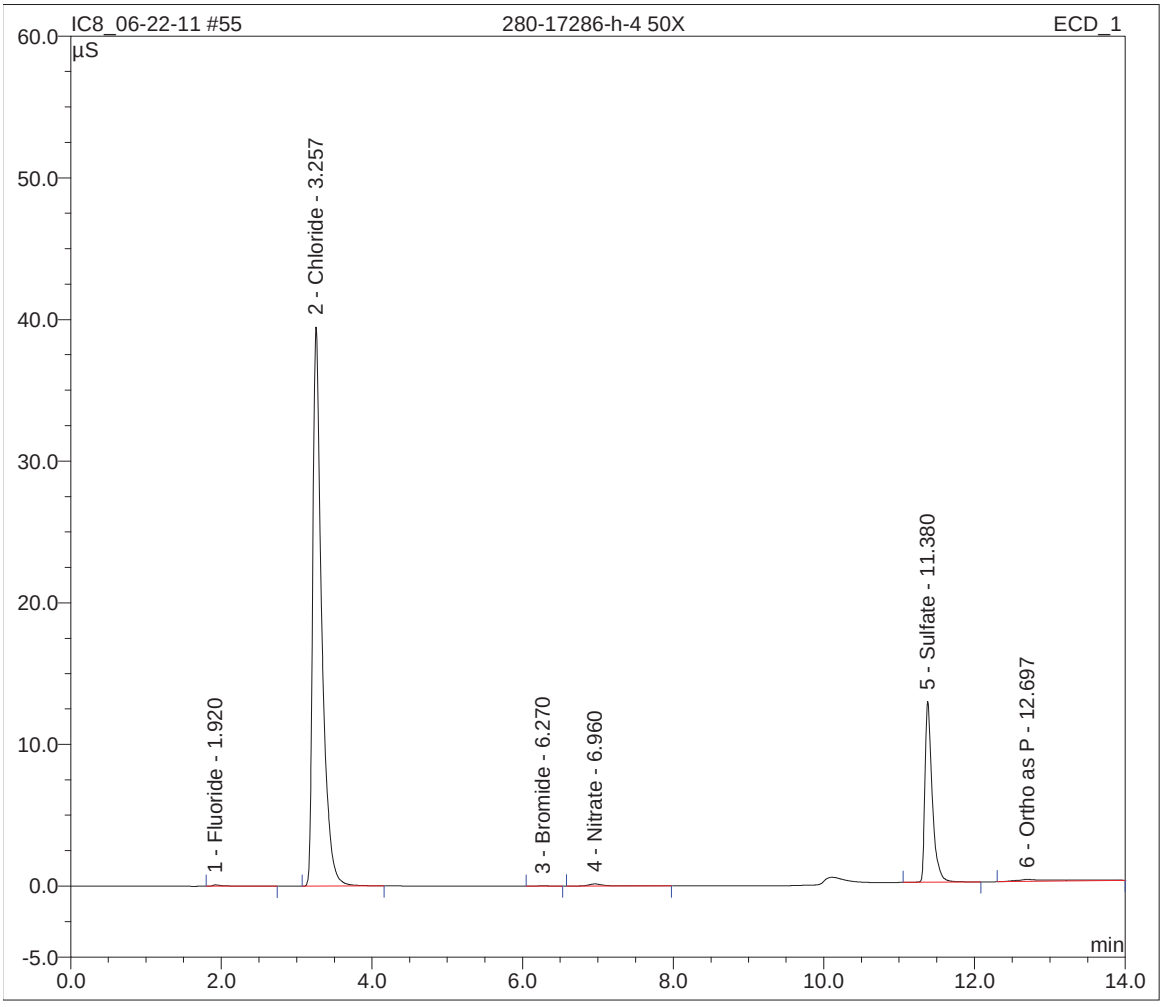
Sample Name:	**280-17286-h-4 10X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 22:57**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.074	0.498	1.5887
2	3.24	Chloride	BMB	27.251	187.293	1135.3557
3	6.26	Bromide	BMB	0.015	0.086	1.7161
4	6.93	Nitrate	BMB	0.160	0.773	2.6021
5	11.33	Sulfate	BMB	6.851	46.160	372.2246
6	12.71	Ortho as P	BMB	0.080	0.153	-2.1930
		TOTAL:		34.43	234.96	1511.29



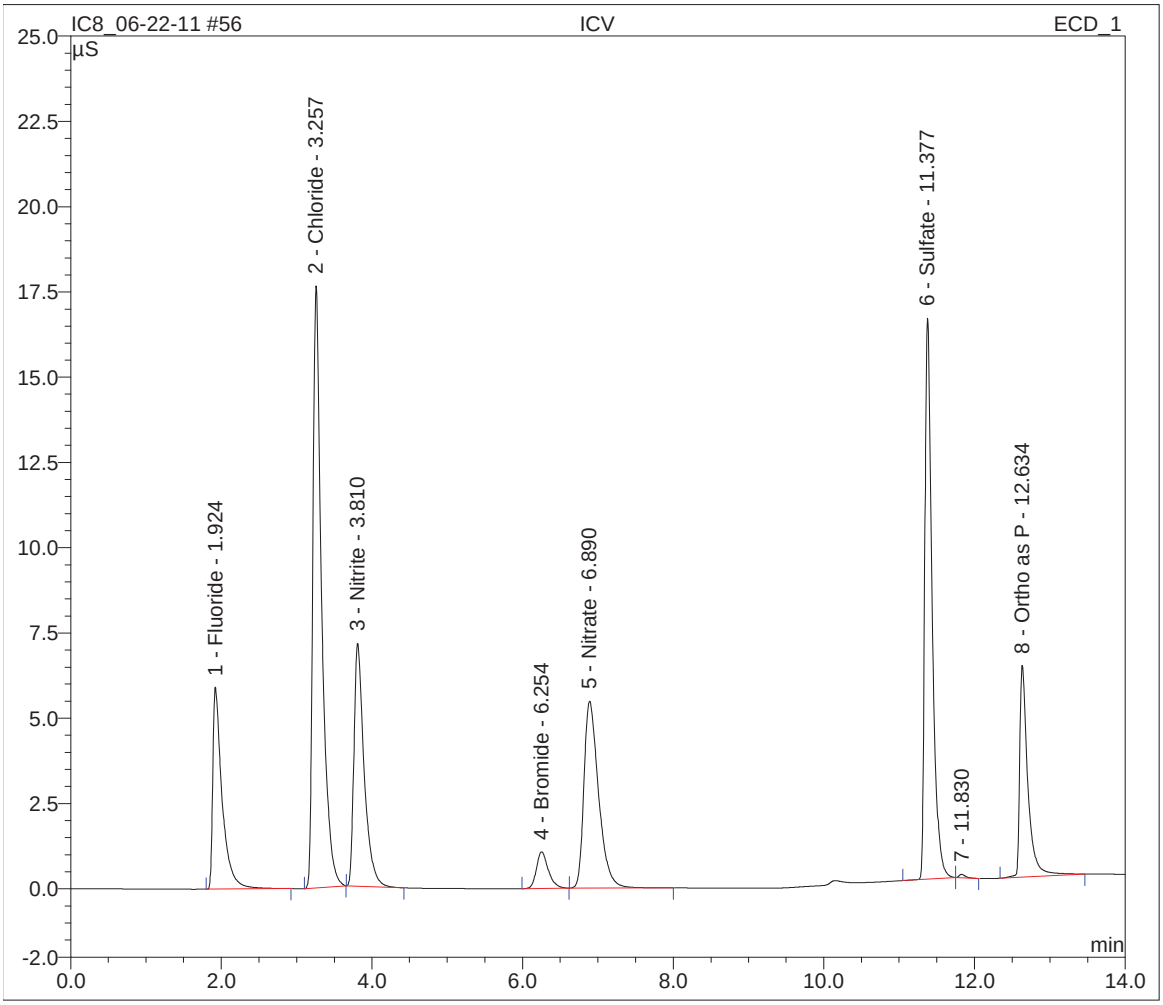
Sample Name:	**280-17286-h-4 50X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**50.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 23:14**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.014	0.091	0.5702
2	3.26	Chloride	BMB	5.496	39.476	1143.4670
3	6.27	Bromide	BMB	0.003	0.016	2.2230
4	6.96	Nitrate	BMB	0.034	0.146	2.7324
5	11.38	Sulfate	BMB	1.425	12.745	384.2165
6	12.70	Ortho as P	BMB	0.086	0.140	-10.0303
		TOTAL:		7.06	52.61	1523.18



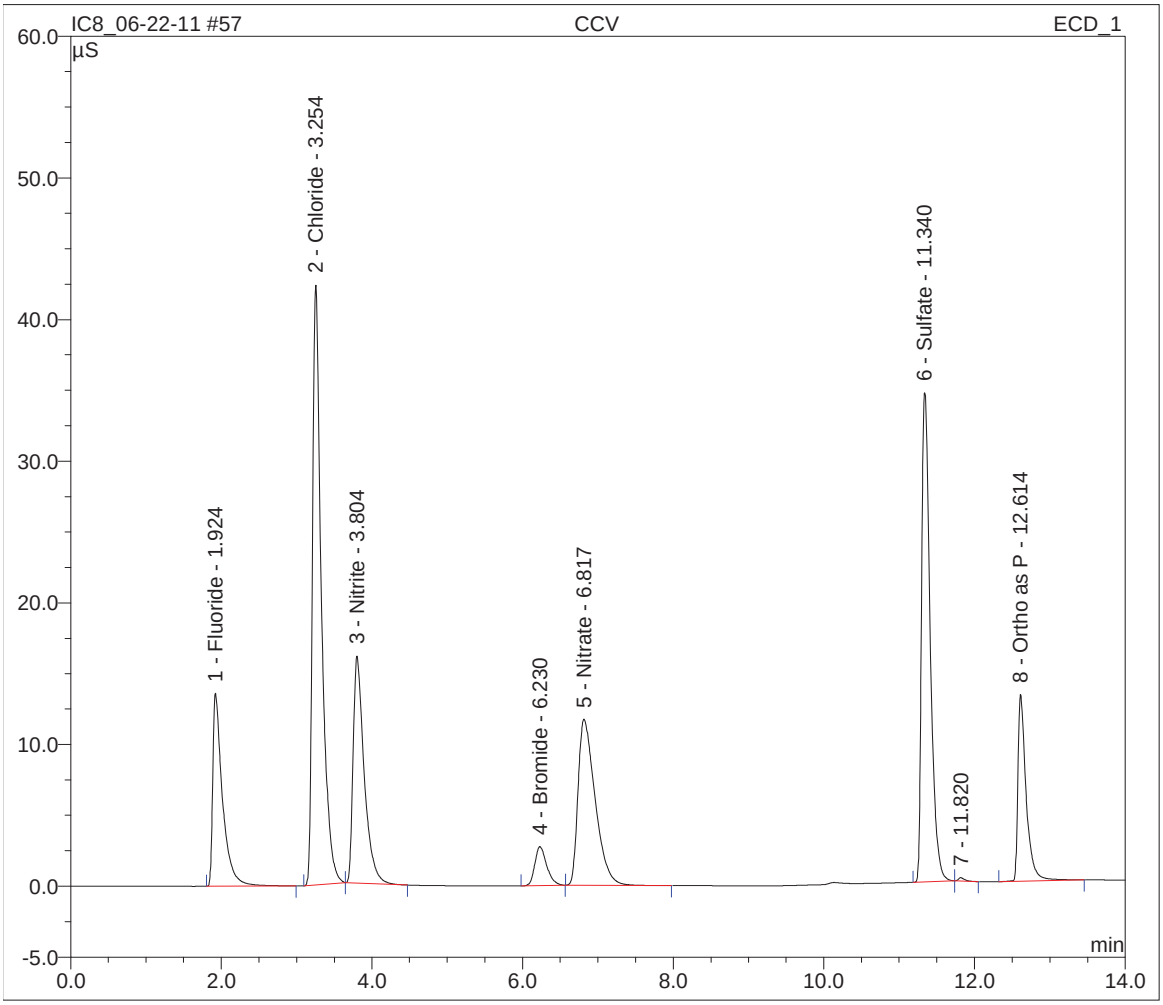
Sample Name:	**ICV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 23:31**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	0.851	5.912	2.0668
2	3.26	Chloride	BMB	2.394	17.657	9.9412
3	3.81	Nitrite	BMB	1.110	7.126	2.0735
4	6.25	Bromide	BMB	0.194	1.070	1.9588
5	6.89	Nitrate	BMB	1.230	5.477	2.0049
6	11.38	Sulfate	BMb	1.866	16.455	10.0843
8	12.63	Ortho as P	BMB	0.784	6.210	2.0960
		TOTAL:		8.43	59.91	30.23



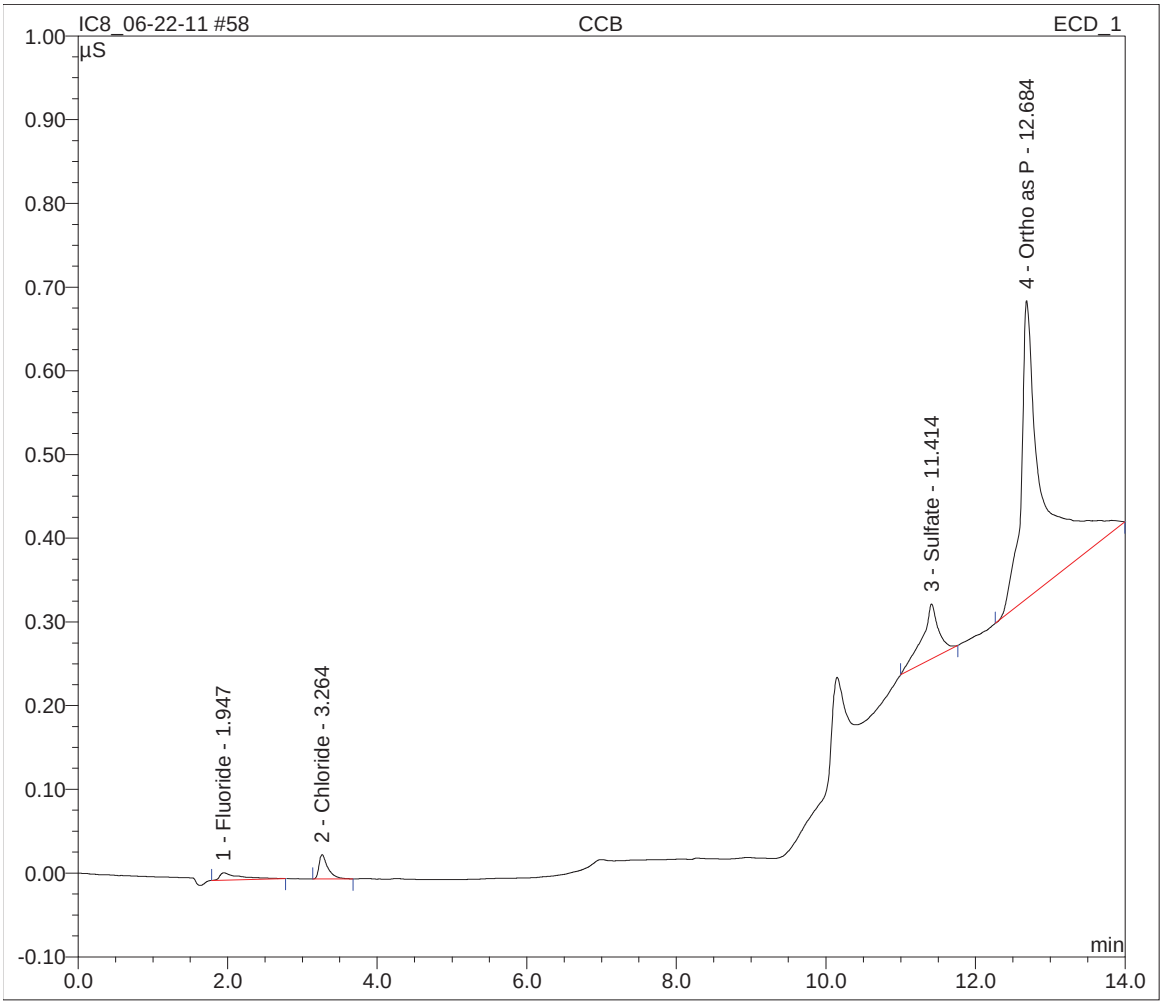
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**22.06.11 23:48**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.92	Fluoride	BMB	2.042	13.612	4.9938
2	3.25	Chloride	BMb	5.830	42.338	24.2625
3	3.80	Nitrite	bMB	2.720	16.027	5.1116
4	6.23	Bromide	BMB	0.503	2.751	5.0381
5	6.82	Nitrate	BMB	3.071	11.712	5.0053
6	11.34	Sulfate	BMb	4.611	34.535	25.0295
8	12.61	Ortho as P	BMB	1.682	13.171	5.0525
		TOTAL:		20.46	134.15	74.49



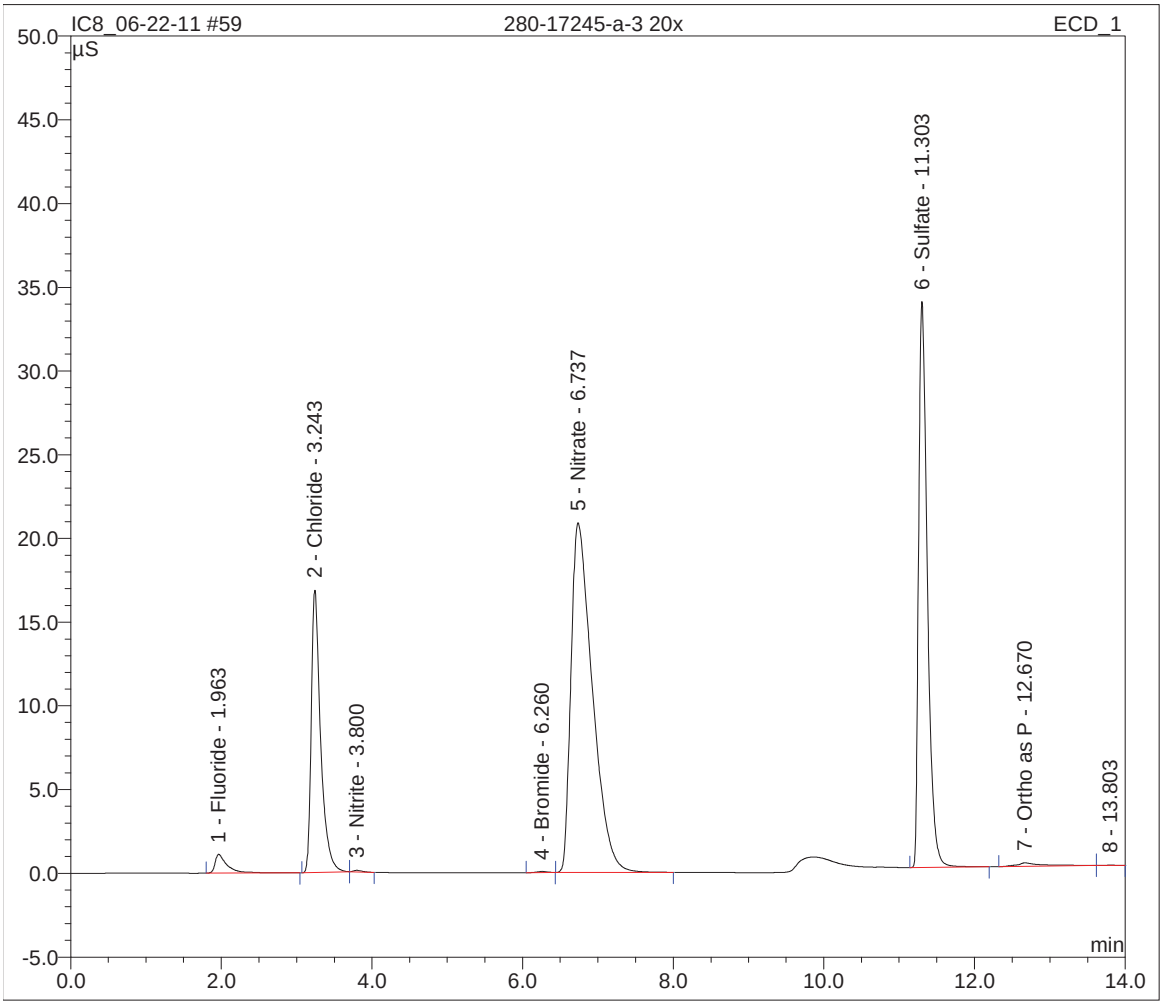
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**23.06.11 00:05**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	0.003	0.009	-0.0173
2	3.26	Chloride	BMB	0.004	0.029	-0.0188
3	11.41	Sulfate	BMB	0.017	0.065	0.0194
4	12.68	Ortho as P	BMB	0.123	0.356	-0.0785
TOTAL:				0.15	0.46	-0.10



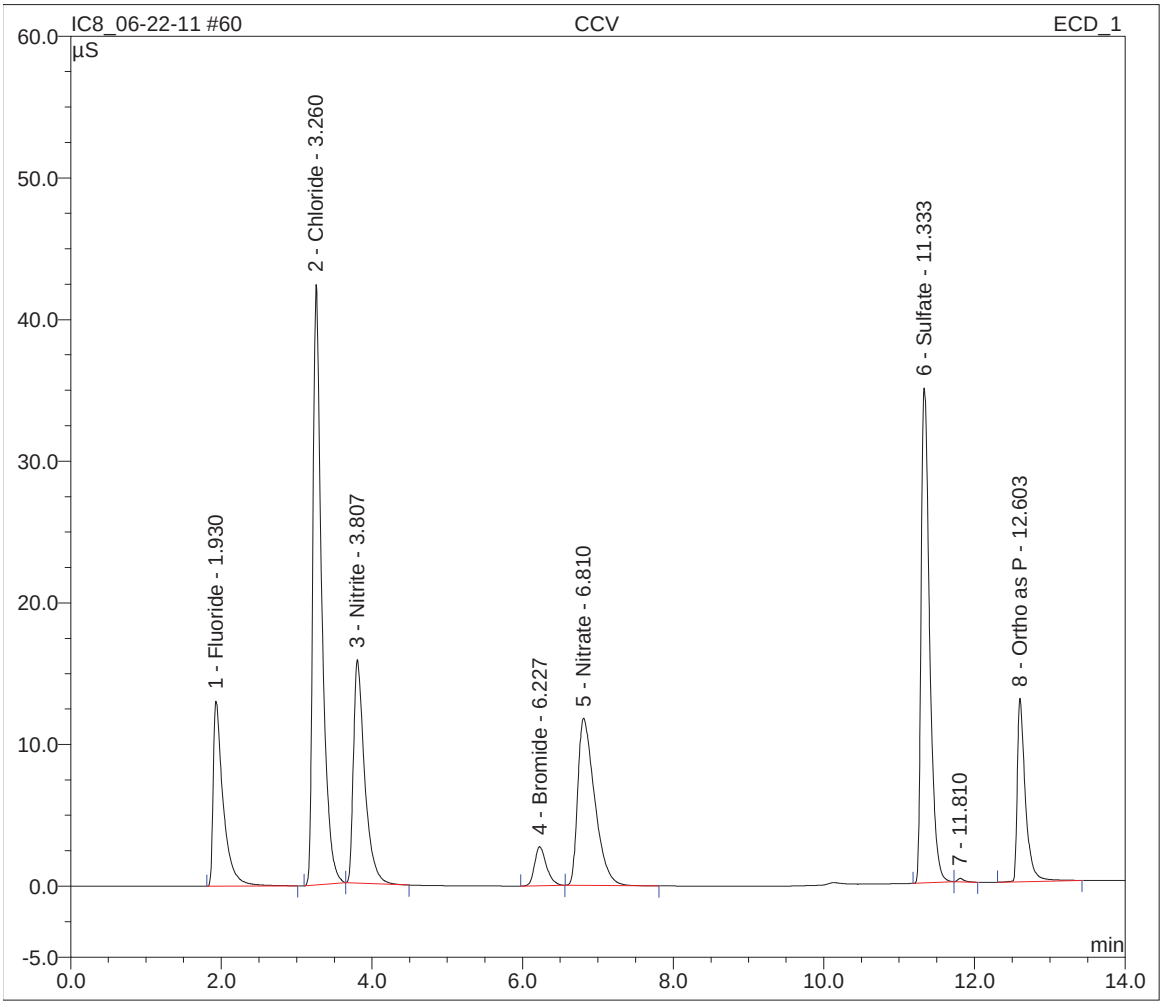
Sample Name:	**280-17245-a-3 20x**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**20.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**23.06.11 07:15**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.96	Fluoride	BMB	0.207	1.121	9.6853
2	3.24	Chloride	BMb	2.418	16.865	200.8659
3	3.80	Nitrite	bMB	0.012	0.095	-0.0093
4	6.26	Bromide	BMB	0.011	0.064	2.4648
5	6.74	Nitrate	BMB	6.861	20.886	223.6273
6	11.30	Sulfate	BMB	4.587	33.805	497.9387
7	12.67	Ortho as P	BMB	0.081	0.208	-4.3511
		TOTAL:		14.18	73.04	930.22



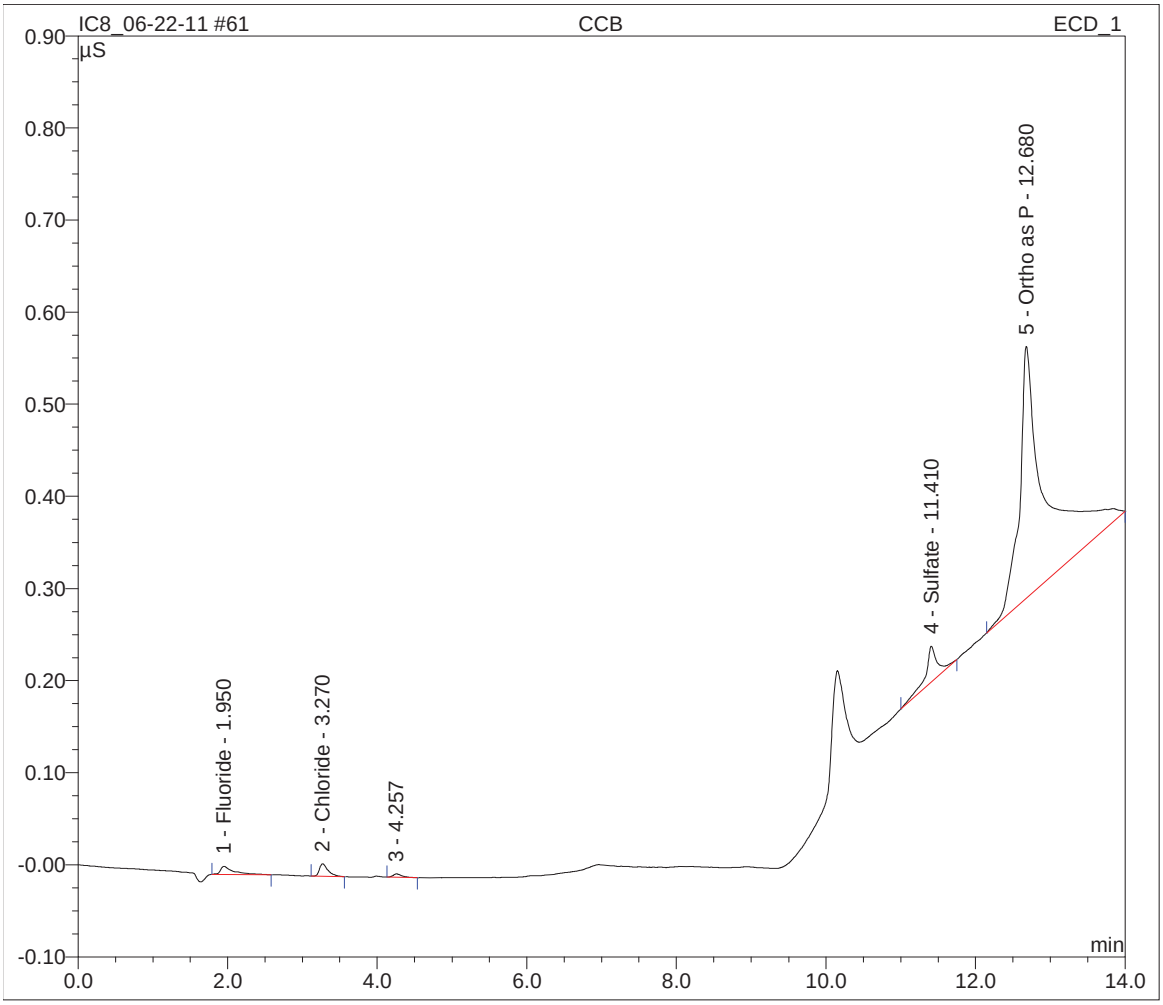
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**23.06.11 07:32**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.93	Fluoride	BMB	2.008	13.053	4.9089
2	3.26	Chloride	BMb	5.829	42.394	24.2569
3	3.81	Nitrite	bMB	2.699	15.774	5.0722
4	6.23	Bromide	BMB	0.501	2.759	5.0226
5	6.81	Nitrate	BMB	3.064	11.794	4.9934
6	11.33	Sulfate	BMb	4.613	34.922	25.0410
8	12.60	Ortho as P	BMB	1.614	12.937	4.8282
		TOTAL:		20.33	133.63	74.12



Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**7 Anion**	*Operator:*	**n.a.**
Inj. Date/Time:	**23.06.11 07:49**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.95	Fluoride	BMB	0.002	0.009	-0.0196
2	3.27	Chloride	BMB	0.002	0.014	-0.0279
4	11.41	Sulfate	BMB	0.007	0.039	-0.0359
5	12.68	Ortho as P	BMB	0.112	0.273	-0.1149
TOTAL:				0.12	0.33	-0.20



Wet Chemistry Data Review Checklist
For Tests with Calibration Curves

Test Name/ Method #: TOC SOP # DV-WC-0006

Instrument: SHI 2 Analyst: G Yates Analysis Date: 7-7-11

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
17245, 17248, 17708	Aq		75698	9080A	C4
17631, 17635,	Aq		↓	SM5310B	

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Minimum of five standards in ICAL or as specified in method?	✓			✓
2. Correlation coefficient ≥ 0.995 ?	✓			✓
3. Second-source ICV analyzed, and recovery within acceptance limits?	✓			✓
4. ICB analyzed immediately after the ICV & results < the RL	✓			✓
5. CCV analyzed after every ten samples & recovery within acceptance limits?	✓			✓
6. CCB analyzed after every CCV & results < RL?	✓			✓
7. Absolute value of the intercept is < ± ½ the RL?	✓			✓
B. Sample Results				
1. All samples greater than highest calibration standard diluted and reanalyzed?	✓			✓
2. Do associated RLs/MDLs reflect dilutions or limited sample volume?	✓			✓
3. All reported results bracketed by in control CCV results?	✓			✓
4. Sample analyses done within holding time?	✓			✓
5. Initial pH check documented for all samples? (If Applicable)	✓			✓
6. Preparation benchsheet completed and included in package?			✓	✓
7. Client requirements reviewed and met?	✓			✓
8. Were data manually transcribed from instrument printouts into TALS verified 100% including significant figures and correct units? (If Applicable)			✓	✓
9. Do the prep and analysis dates in TALS reflect the actual dates?	✓			✓
11. Raw data copies prepared, scanned, and uploaded?	✓			✓
12. Manual integrations done properly and initialed and dated?			✓	✓
13. STD/True Value information is updated and included?	✓			✓
C. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10x blank have NCM?	✓			✓
2. Method blank < ½ RL or NCM provided?	✓			✓
3. LCS/LCSD run for batch and within QC limits?	✓			✓
4. MS/MSD run at required frequency and within limits or NCM written?	✓			✓
5. DUP run at required frequency and RPD within acceptance limits or NCM written?			✓	✓

Analyst: [signature] Date: 7-8-11

2nd Level Reviewer : D. B. Date: 07-11-11

TestAmerica Denver Wet Chemistry Data Review Checklist
For Titration Methods

ANALYTE: Alk ANALYST: AA ANALYSIS DATE: 6/28/11 SOP: WC-0025

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
17255 17248	W	N/A	74376	2320B	DU
17261	↓	↓	↓	↓	
17201					
17237					DU
17197					
17245					
17195					

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Was the normality of the titrant verified and found acceptable?			✓	✓
B. Sample Results				
1. Are all sample dilutions appropriate and do associated RLs/MDLs reflect required dilutions or limited sample volume?			✓	-
2. All reported results bracketed by in control CCV/CCB?	✓			-
3. Sample analyses done within holding time?	✓			-
4. Initial pH check documented for all samples (if required)?	✓			-
5. Preparation benchsheet completed and included in package (if applicable)?			✓	-
6. Special client requirements checked?	✓			-
7. Was data manually transcribed from instrument printouts into TALS verified 100% including significant figures? (If Applicable)			✓	-
8. Do the prep and analysis dates in TALS reflect the actual dates?	✓			-
9. STD/True Value information is updated and included?	✓			-
10. Raw data copies prepared, scanned, and uploaded?	✓			-
C. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10x blank have NCM?	✓			-
2. Method blank < ½ RL or NCM provided?	✓			-
3. LCS/LCSD run for batch and within QC limits?	✓			-
4. MS/MSD run at required frequency and within limits or NCM written?			✓	-
5. DUP run at required frequency and RPD within 20% or NCM written?	✓			-

Analyst: [signature] **Date:** 6/29/11

Comments:

2nd Level Reviewer : [signature] **Date:** 6/29/11

Comments:

Wet Chemistry Data Review Checklist For Gravimetric Methods

Test Name/Method #: TDS Analysis Date: 6/27/11

SOP #: DV-WC-0064 Analyst: BT Instrument: Bal

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
17201, 17255, 17237, 17238, 17248, 17245	wah	—	73950	—	—

6/30/11 BT

A. Balance, Oven, and DI Water QC Checks	Yes	No	N/A	2nd Level
1. Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed?	—			—
2. Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed?	—			—
3. Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"?		✓		—
B. Method Requirements				
1. If sample is visibly oily, was this noted on the benchsheet?		✓		—
2. Was final residue weight within minimum/maximum requirements?	—			—
3. Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour?	—			—
C. Sample Results				
1. TDS/Conductivity ratio or historical data checked?		✓		—
2. For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%?			✓	—
3. Were sample analyses done within holding time?	—			—
4. Were special client requirements met?	—			—
5. Were data that were manually transcribed from instrument printouts into TALS verified 100% including significant figures and units?	—			—
6. Do the prep and analysis dates in TALS reflect the actual dates? Lots/Dates report checked?	—			—
7. STD/True Value information is updated and included?	—			—
8. Are raw data copies prepared, scanned, and uploaded?	—			—
D. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10 X RL?	—			—
2. Method blank < ½ RL or NCM provided?	—			—
3. LCS/LCSD run for batch and within QC limits?	—			—
4. DUP run for batch and RPD < 20% for samples >5 X RL?	—			—

Analyst: BT Date: 6/30/11

Comments: _____

2nd Level Reviewer : [signature] Date: 6/30/11

Comments: _____

Revision 2.0
5/18/10
QA\Edit\FORMS\Data Review\Gravimetric Review Checklist

Wet Chemistry Data Review Checklist For Gravimetric Methods

Test Name/Method #: TDS Analysis Date: 6/27/11

SOP #: DV-WC-0064 Analyst: BS Instrument: BAL

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
17248 17249 17260	WAT	—	73555	—	—

7/1/11 BS

A. Balance, Oven, and DI Water QC Checks	Yes	No	N/A	2nd Level
1. Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed?	—			✓
2. Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed?	—			✓
3. Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"?		<		✓
B. Method Requirements				
1. If sample is visibly oily, was this noted on the benchsheet?		<		✓
2. Was final residue weight within minimum/maximum requirements?	—			✓
3. Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour?	—			✓
C. Sample Results				
1. TDS/Conductivity ratio or historical data checked?		<		✓
2. For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%?			<	✓
3. Were sample analyses done within holding time?	—			✓
4. Were special client requirements met?	—			✓
5. Were data that were manually transcribed from instrument printouts into TALS verified 100% including significant figures and units?	—			✓
6. Do the prep and analysis dates in TALS reflect the actual dates? Lots/Dates report checked?	—			✓
7. STD/True Value information is updated and included?	—			✓
8. Are raw data copies prepared, scanned, and uploaded?	—			✓
D. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10 X RL?	—			✓
2. Method blank < ½ RL or NCM provided?	—			✓
3. LCS/LCSD run for batch and within QC limits?	—			✓
4. DUP run for batch and RPD < 20% for samples >5 X RL?	—			✓

Analyst: BS Date: 7/1/11

Comments: _____

2nd Level Reviewer : BS Date: 7/1/11

Comments: _____

TestAmerica Denver

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BOD Data Review Checklist

Methods: EPA 405.1, Standard Methods 5210 B

SOP # DV-WC-0019

Run Date: 6 22 11 **Analyst:** DVA **Instrument:** BOD

Log-in / Sample Numbers	Batch	Method	Special Inst
180 1220/4	73229	5210B	—
280 17201/1-5			—
280 17195/1-5			Q4
280 17200/1-6			—
280 17197/1-2			Q4
280 17240/5			—
280 17239/3			Q4
280 17248/2			Q4

A. Materials and Instrument Checks	Yes	No	N/A	2nd Level
1. Seed water stirred/aerated for at least one hour?	✓			
2. Incubator temperature in control (20 ± 1°C) for 5-day incubation?	✓			
3. Probe checks done at prescribed intervals as shown on the benchsheet?	✓			✓
4. If CBOD in batch, is there is a Blank, Duplicate for CBOD in the batch?	✓			✓
B. Method Required QC				
1. Initial D.O. readings for samples, blanks and GGA standard between 7.0 and 9.0 mg/L?	✓			✓
2. Seed control depletion is at least 2.0 mg/L (40 – 70%)?	✓			✓
3. Seed correction value between 0.6 and 1.0 mg/L?	✓			✓
4. Glucose/Glutamic acid (LCS) within control limits?	✓			✓
C. Sample Results				
1. 48 hour holding time met for all samples?	✓			✓
2. Was sample pH between 6.5 and 7.5 (adjustment made if necessary)?	✓			✓
3. Were samples checked for residual chlorine (removed if necessary)?	✓			✓
4. Are all sample dilutions with depletion <2.0 mg/L, or final D.O. <1.0 mg/L rejected?	✓			✓
5. Do reporting limits reflect dilutions and/or limited sample volume?	✓			✓
6. Were there any signs of toxicity in the samples?		✓		✓
7. Were there any air bubbles in the BOD bottles?		✓		
8. Were special client requirements met?	✓			✓
9. STD/True Value information is updated and included?	✓			✓

Analyst: _____ **Date:** 6 29 11

2nd Level Reviewer : _____ **Date:** 6/29/11

Revision 2
5/18/10
QA\Edit\FORMS\Data Review\BOD Review Checklist

Test Name/ Method #: BOD **SOP #** DV WC 0019

Instrument: BOD **Analyst:** DVA **Analysis Date:** 6 22 11

Lot / Sample Numbers	Matrix	Batch	Method	Special Inst
280 17245/ 1:2	NA	73229	5210B	Q4

DVA
6/29/11

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 76458 Batch Start Date: 07/13/11 11:50 Batch Analyst: Scott, Samantha J

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CalcMsg	NXN CAL INT 00071	NXN ICV INT 00070	AnalysisComment
ICVL 280-76458/15		350.1		100 mL	100 mL	Not Calculated. Perform Calculation left blank		2 mL	
ICV 280-76458/16		350.1		100 mL	100 mL	Not Calculated. Perform Calculation left blank		5 mL	
ICB 280-76458/17		350.1				Not Calculated. Perform Calculation left blank			
CCV 280-76458/64		350.1		100 mL	100 mL	Not Calculated. Perform Calculation left blank	5 mL		
CCVL 280-76458/65		350.1		100 mL	100 mL	Not Calculated. Perform Calculation left blank	1 mL		
CCB 280-76458/66		350.1				Not Calculated. Perform Calculation left blank			
MB 280-76458/68		350.1				Not Calculated. Perform Calculation left blank			
LCS 280-76458/69		350.1		100 mL	100 mL	Not Calculated. Perform Calculation left blank	5 mL		
LCSD 280-76458/70		350.1		100 mL	100 mL	Not Calculated. Perform Calculation left blank	5 mL		
CCV 280-76458/80		350.1		100 mL	100 mL	Not Calculated. Perform Calculation left blank	5 mL		
CCVL 280-76458/81		350.1		100 mL	100 mL	Not Calculated. Perform Calculation left blank	1 mL		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 76458 Batch Start Date: 07/13/11 11:50 Batch Analyst: Scott, Samantha J

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CalcMsg	NXN CAL INT 00071	NXN ICV INT 00070	AnalysisComment
CCB 280-76458/82		350.1				Not Calculated. Perform Calculation left blank			
280-17248-C-2	062111JE	350.1	T			Not Calculated. Perform Calculation left blank			ph<2
CCV 280-76458/94		350.1		100 mL	100 mL	Not Calculated. Perform Calculation left blank	5 mL		
CCVL 280-76458/95		350.1		100 mL	100 mL	Not Calculated. Perform Calculation left blank	1 mL		
CCB 280-76458/96		350.1				Not Calculated. Perform Calculation left blank			

Batch Notes	
Buffer Reagent ID Number	1019-11
Hypochlorite Reagent ID Number	1046-11
Sodium Nitroprusside Reagent ID	1010-11
Sodium Phenolate Reagent ID Number	1049-11

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 76660 Batch Start Date: 07/14/11 16:45 Batch Analyst: Woolley, Mark

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TKN 25 ppm 00147			
LCS 280-76660/1		351.2, 351.2		25 mL	25 mL	6 mL			
LCSD 280-76660/2		351.2, 351.2		25 mL	25 mL	6 mL			
MB 280-76660/3		351.2, 351.2		25 mL	25 mL				
280-17248-C-2	062111JE	351.2, 351.2	T	25 mL	25 mL				

Batch Notes	
Block Digestion End time	2100
Block Digestion Start time	1700
Block Digestor Name	TKN
Digestion Solution Used	101711
Oven, Bath or Block Temperature 1	140 Degrees C
Oven, Bath or Block Temperature 2	380 Degrees C

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 76964 Batch Start Date: 07/17/11 02:08 Batch Analyst: Woolley, Mark

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TKN 25 ppm 00147	TKN ICV Stock 00006			
ICV 280-76964/13		351.2		4 mL		4 mL			
ICB 280-76964/14		351.2		4 mL					
LCS 280-76660/1-A		351.2		4 mL					
LCSD 280-76660/2-A		351.2		4 mL					
MB 280-76660/3-A		351.2		4 mL					
CCV 280-76964/21		351.2		25 mL	5 mL				
CCB 280-76964/22		351.2		4 mL					
CCV 280-76964/35		351.2		25 mL	5 mL				
CCB 280-76964/36		351.2		4 mL					
280-17248-C-2-A	062111JE	351.2	T	4 mL					
CCV 280-76964/47		351.2		25 mL	5 mL				
CCB 280-76964/48		351.2		4 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 72102 Batch Start Date: 06/15/11 10:59 Batch Analyst: Taylor, Juli M

Batch Method: 410.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	COD icv std 00005			
IC 280-72102/1		410.4		2 mL	50 mL	0.5 mL			
IC 280-72102/2		410.4		2 mL	50 mL	1 mL			
IC 280-72102/3		410.4		2 mL	50 mL	2.5 mL			
IC 280-72102/4		410.4		2 mL	50 mL	5 mL			
IC 280-72102/5		410.4		2 mL	50 mL	7.5 mL			
IC 280-72102/6		410.4		2 mL	50 mL	10 mL			

Batch Notes	
Batch Comment	420 nm
Block Digestion End time	13:15
Block Digestion Start time	11:15
Oven, Bath or Block Temperature 1	150
Oven, Bath or Block Temperature 2	150
Sufficient volume for MS/MSD?	Y
Vial Lot Number	A1135

Basis	Basis Description

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 73734 Batch Start Date: 06/24/11 10:34 Batch Analyst: Taylor, Juli M

Batch Method: 410.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	COD cal std 00009	COD icv std 00005	AnalysisComment
ICV 280-73734/1		410.4		10 mL	100 mL			10 mL	
ICB 280-73734/2		410.4		2 mL	2 mL				
LCS 280-73734/3		410.4		10 mL	100 mL		10 mL		
LCSD 280-73734/4		410.4		10 mL	100 mL		10 mL		
MB 280-73734/5		410.4		2 mL	2 mL				
CCV 280-73734/16		410.4		10 mL	100 mL		10 mL		
CCB 280-73734/17		410.4		2 mL	2 mL				
CCV 280-73734/28		410.4		10 mL	100 mL		10 mL		
CCB 280-73734/29		410.4		2 mL	2 mL				
280-17248-D-2	062111JE	410.4	T	2 mL	2 mL	PH<2 SU			CHLORIDE<2000
CCV 280-73734/33		410.4		10 mL	100 mL		10 mL		
CCB 280-73734/34		410.4		2 mL	2 mL				

Batch Notes	
Acid used for pH adjustment	H2SO4
Acid used for pH adjust Lot #	0618-11 X:04-12
Batch Comment	420 nm
Block Digestion End time	12:15
Block Digestion Start time	10:15
Block Digestor Name	COD2
Oven, Bath or Block Temperature 1	150
Oven, Bath or Block Temperature 2	150
Sufficient volume for MS/MSD?	Y
Vial Lot Number	A1135

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 73424 Batch Start Date: 06/22/11 16:34 Batch Analyst: Ayala, Delaina

Batch Method: SM 2120B Batch End Date: 06/22/11 16:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TurbidityRemoved				
MB 280-73424/1		SM 2120B		50 mL	N				
280-17248-A-1	B035M0416JA	SM 2120B	T	50 mL	N				
280-17248-B-2	062111JE	SM 2120B	T	50 mL	N				

Batch Notes	
Batch Comment	NESSLER TUBES 0-50 0232-11

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 76596 Batch Start Date: 07/14/11 11:37 Batch Analyst: Allen, Andrew J

Batch Method: SM 2340C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BuretStart1	BuretStop1	TitrantVolume1	CalcMsg
LCS 280-76596/1		SM 2340C		25 mL	25 mL	0.00 mL	9.96 mL	9.96 mL	OK
LCSD 280-76596/2		SM 2340C		25 mL	25 mL	0.00 mL	10.03 mL	10.03 mL	OK
MB 280-76596/3		SM 2340C		25 mL	25 mL	0.00 mL	0.00 mL	0 mL	OK
280-17248-E-2	062111JE	SM 2340C	T	25 mL	25 mL	0.00 mL	0.04 mL	0.04 mL	OK

Lab Sample ID	Client Sample ID	Method Chain	Basis	Hard lcs std 00017					
LCS 280-76596/1		SM 2340C		10 mL					
LCSD 280-76596/2		SM 2340C		10 mL					
MB 280-76596/3		SM 2340C							
280-17248-E-2	062111JE	SM 2340C	T						

Batch Notes	
Buffer Lot #	0982-11
EDTA Lot Number	4102015
Indicator Lot	0289-11
Nominal Amount Used	25 mL
Perform Calculation (0=No, 1=Yes)	1
Normality of first Titrant	0.01990 N
Titrant Standardization Date	071411

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 73686 Batch Start Date: 06/22/11 09:22 Batch Analyst: Kudla, Ewa

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	IC CAL INT1 00101	IC daily cal 00510	IC ICV daily 00510	ICMS/MSD WEEK 00089
ICV 280-73686/1		9056A			Not Calculated. Perform Calculation left blank			5 mL	
ICB 280-73686/2		9056A			Not Calculated. Perform Calculation left blank				
MRL 280-73686/3		9056A		5 mL	Not Calculated. Perform Calculation left blank	0.02 mL			
LCS 280-73686/4		9056A			Not Calculated. Perform Calculation left blank		5 mL		
LCSD 280-73686/5		9056A			Not Calculated. Perform Calculation left blank		5 mL		
MB 280-73686/6		9056A			Not Calculated. Perform Calculation left blank				
280-17248-A-1	B035M0416JA	9056A	T		Not Calculated. Perform Calculation left blank				
CCV 280-73686/17		9056A			Not Calculated. Perform Calculation left blank		5 mL		
CCB 280-73686/18		9056A			Not Calculated. Perform Calculation left blank				
280-17248-B-2	062111JE	9056A	T		Not Calculated. Perform Calculation left blank				
280-17248-B-2 DU	062111JE	9056A	T		Not Calculated. Perform Calculation left blank				

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 73686 Batch Start Date: 06/22/11 09:22 Batch Analyst: Kudla, Ewa

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	IC CAL INT1 00101	IC daily cal 00510	IC ICV daily 00510	ICMS/MSD WEEK 00089
280-17248-B-2 MS	062111JE	9056A	T	5 mL	Not Calculated. Perform Calculation left blank				50 uL
280-17248-B-2 MSD	062111JE	9056A	T	5 mL	Not Calculated. Perform Calculation left blank				50 uL
CCV 280-73686/29		9056A			Not Calculated. Perform Calculation left blank		5 mL		
CCB 280-73686/30		9056A			Not Calculated. Perform Calculation left blank				

Batch Notes	

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 73687 Batch Start Date: 06/22/11 09:22 Batch Analyst: Kudla, Ewa

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	IC CAL INT1 00101	IC daily cal 00510	IC ICV daily 00510	ICMS/MSD WEEK 00089	
ICV 280-73687/1		9056A					5 mL		
MRL 280-73687/3		9056A		5 mL	0.02 mL				
LCS 280-73687/4		9056A				5 mL			
LCSD 280-73687/5		9056A				5 mL			
CCV 280-73687/17		9056A				5 mL			
280-17248-B-2 MS	062111JE	9056A	T	5 mL				50 uL	
280-17248-B-2 MSD	062111JE	9056A	T	5 mL				50 uL	
CCV 280-73687/29		9056A				5 mL			
CCV 280-73687/41		9056A				5 mL			

Batch Notes	

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 75698 Batch Start Date: 07/07/11 15:36 Batch Analyst: Yates, George E

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TOC ICV Daily 00326	TOC LCS Daily 00325	TOC LCS Std 00010	AnalysisComment
ICV 280-75698/1		9060A		20 mL	20 mL	20 mL			pH < 2
ICB 280-75698/2		9060A		20 mL	20 mL				pH < 2
LCS 280-75698/3		9060A		20 mL	20 mL		20 mL		pH < 2
LCSD 280-75698/4		9060A		20 mL	20 mL		20 mL		pH < 2
MB 280-75698/5		9060A		20 mL	20 mL				pH < 2
CCV 280-75698/16		9060A		20 mL	20 mL		20 mL		pH < 2
CCB 280-75698/17		9060A		20 mL	20 mL				pH < 2
280-17248-B-1	B035M0416JA	9060A	T	20 mL	20 mL				pH < 2
280-17248-B-1 MS	B035M0416JA	9060A	T	50 mL	50 mL			1.25 mL	pH < 2
280-17248-B-1 MSD	B035M0416JA	9060A	T	50 mL	50 mL			1.25 mL	pH < 2
280-17248-D-2	062111JE	9060A	T	20 mL	20 mL				pH < 2
CCV 280-75698/28		9060A		20 mL	20 mL		20 mL		pH < 2
CCB 280-75698/29		9060A		20 mL	20 mL				pH < 2

Batch Notes	
Lot # of Phosphoric Acid	H2SO4 0989-11

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 74376 Batch Start Date: 06/28/11 09:36 Batch Analyst: Allen, Andrew J

Batch Method: SM 2320B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	Alk daily lcs 00152				
CCV2 280-74376/29		SM 2320B		InitialAmount is blank	20 mL				
CCB2 280-74376/30		SM 2320B		InitialAmount is blank					
LCS 280-74376/31		SM 2320B		InitialAmount is blank	20 mL				
LCSD 280-74376/32		SM 2320B		InitialAmount is blank	20 mL				
MB 280-74376/33		SM 2320B		InitialAmount is blank					
CCV3 280-74376/41		SM 2320B		InitialAmount is blank	20 mL				
CCB3 280-74376/42		SM 2320B		InitialAmount is blank					
280-17248-A-1	B035M0416JA	SM 2320B	T	InitialAmount is blank					
280-17248-B-2	062111JE	SM 2320B	T	InitialAmount is blank					
CCV4 280-74376/53		SM 2320B		InitialAmount is blank	20 mL				
CCB4 280-74376/54		SM 2320B		InitialAmount is blank					

Batch Notes	
pH Buffer 1 ID	0933-11
pH Buffer 2 ID	0935-11
pH Buffer 3 ID	0763-11
Sulfuric Acid Lot Number	4102712
Sulfuric Acid Vendor	Ricca
Nominal Amount Used	20 mL
Normality of first Titrant	0.02 N

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 73950 Batch Start Date: 06/27/11 08:16 Batch Analyst: Domnick, Brandon J

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	Weight3
MB 280-73950/1		SM 2540C			100 mL	68.5450 g	68.5457 g	68.5456 g	68.5456 g
LCS 280-73950/2		SM 2540C			100 mL	70.2058 g	70.2553 g	70.2556 g	0 g
LCSD 280-73950/3		SM 2540C			100 mL	70.6761 g	70.7254 g	70.7260 g	70.7256 g
280-17248-A-1	B035M0416JA	SM 2540C	T	997 umhos/cm	100 mL	69.8542 g	69.9357 g	69.9287 g	69.9287 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightOne%Diff	WeightTwo%Diff	Residue	Residue2	Residue3	FinalAmount
MB 280-73950/1		SM 2540C		PASS_D No Unit	PASS_B No Unit	0.00070 g	0.00060 g	0.000599999999991496 g	100 mL
LCS 280-73950/2		SM 2540C		PASS_D No Unit		0.04950 g	0.04980 g		100 mL
LCSD 280-73950/3		SM 2540C		NOPE_B No Unit	PASS_B No Unit	0.04930 g	0.04990 g	0.049499999999948 g	100 mL
280-17248-A-1	B035M0416JA	SM 2540C	T	NOPE_B No Unit	PASS_B No Unit	0.08150 g	0.07450 g	0.074500000000005 g	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	TDS LCS 00166	AnalysisComment				
MB 280-73950/1		SM 2540C			2nd wght 68.5462				
LCS 280-73950/2		SM 2540C		100 mL					
LCSD 280-73950/3		SM 2540C		100 mL					
280-17248-A-1	B035M0416JA	SM 2540C	T		2nd wght 69.9314				

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 73950 Batch Start Date: 06/27/11 08:16 Batch Analyst: Domnick, Brandon J

Batch Method: SM 2540C Batch End Date:

Batch Notes	
Balance ID	D91301
Constant Weight (WT2) Date/Time in Oven	6/28/11 10:25
Constant Weight (WT2) Date/Time Out	6/28/11 11:25
Constant Weight (WT2) Temp In	180 Celsius
Constant Weight (WT2) Temp Out	180 Celsius
Constant Weight (WT3) Date/time In	6/29/11 8:05
Constant Weight (WT3) Date/Time Out	6/29/11 10:10
Constant Weight (WT3) Temp In	180 Celsius
Constant Weight (WT3) Temp Out	180 Celsius
Filter Paper Lot Number	millipore lot# roma80167
Date samples were placed in the oven	6/27/11 11:20
Oven Temp when samples are put in oven	179 Celsius
Nominal Amount Used	100 mL
Date samples were removed from oven	6/28/11 5:30
Oven Temp when samples removed from oven	180 Celsius
Oven ID	A
ID number of the thermometer	2145

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 73955 Batch Start Date: 06/27/11 08:29 Batch Analyst: Domnick, Brandon J

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	Weight3
MB 280-73955/1		SM 2540C			100 mL	70.2124 g	70.2131 g	70.2136 g	70.2132 g
LCS 280-73955/2		SM 2540C			100 mL	75.8111 g	75.8612 g	75.8612 g	0 g
LCSD 280-73955/3		SM 2540C			100 mL	69.3880 g	69.4381 g	69.4382 g	0 g
280-17248-B-2	062111JE	SM 2540C	T	1.11 umhos/cm	100 mL	67.5030 g	67.5036 g	67.5041 g	67.5038 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightOne%Diff	WeightTwo%Diff	Residue	Residue2	Residue3	FinalAmount
MB 280-73955/1		SM 2540C		NOPE_B No Unit	PASS_B No Unit	0.00070 g	0.00120 g	0.000799999999998136 g	100 mL
LCS 280-73955/2		SM 2540C		PASS_D No Unit		0.05010 g	0.05010 g		100 mL
LCSD 280-73955/3		SM 2540C		PASS_D No Unit		0.05010 g	0.05020 g		100 mL
280-17248-B-2	062111JE	SM 2540C	T	NOPE_B No Unit	PASS_B No Unit	0.00060 g	0.00110 g	0.000799999999998136 g	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	TDS LCS 00167					
MB 280-73955/1		SM 2540C							
LCS 280-73955/2		SM 2540C		100 mL					
LCSD 280-73955/3		SM 2540C		100 mL					
280-17248-B-2	062111JE	SM 2540C	T						

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 73955 Batch Start Date: 06/27/11 08:29 Batch Analyst: Domnick, Brandon J

Batch Method: SM 2540C Batch End Date:

Batch Notes	
Balance ID	D91301
Constant Weight (WT2) Date/Time in Oven	6/28/11 10:15
Constant Weight (WT2) Date/Time Out	6/28/11 11:25
Constant Weight (WT2) Temp In	180 Celsius
Constant Weight (WT2) Temp Out	180 Celsius
Constant Weight (WT3) Date/time In	6/29/11 8:00
Constant Weight (WT3) Date/Time Out	6/29/11 10:10
Constant Weight (WT3) Temp In	180 Celsius
Constant Weight (WT3) Temp Out	180 Celsius
Filter Paper Lot Number	millipore lot# roma80167
Date samples were placed in the oven	6/27/11 12:30
Oven Temp when samples are put in oven	179 Celsius
Nominal Amount Used	100 mL
Date samples were removed from oven	6/28/11 5:30
Oven Temp when samples removed from oven	180 Celsius
Oven ID	A
ID number of the thermometer	2145

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 73229 Batch Start Date: 06/22/11 05:22 Batch Analyst: Ayala, Delaina

Batch Method: SM5210B Batch End Date: 06/27/11 11:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResidualChloCheck	InitialTemp	Initial_DO	Initial pH	FinTemp	Final_DO
LCS 280-73229/34		SM5210B							
LCSD 280-73229/35		SM5210B							
MB 280-73229/36		SM5210B							
280-17248-A-2	062111JE	SM5210B	T	NEG	19.47 Celsius	7.54 mg/L	6.71	19.86 Celsius	7.51 mg/L

Lab Sample ID	Client Sample ID	Method Chain	Basis	Bot1Num	Bot1Amt	Bot1IDO	Bot1FDO	Bot1Dep	Bot1BOD
LCS 280-73229/34		SM5210B		127	6 mL	7.57 mg/L	2.65 mg/L	4.92 mg/L	200.8 mg/L
LCSD 280-73229/35		SM5210B		128	6 mL	7.58 mg/L	2.77 mg/L	4.81 mg/L	195.3 mg/L
MB 280-73229/36		SM5210B		129	300 mL	7.60 mg/L	6.67 mg/L	0.93 mg/L	0.026 mg/L
280-17248-A-2	062111JE	SM5210B	T	140	10 mL	7.63 mg/L	6.68 mg/L	0.95 mg/L	1.38 mg/L

Lab Sample ID	Client Sample ID	Method Chain	Basis	Bot1Use	Bot2Num	Bot2Amt	Bot2IDO	Bot2FDO	Bot2Dep
LCS 280-73229/34		SM5210B		YES. Pass					
LCSD 280-73229/35		SM5210B		YES. Pass					
MB 280-73229/36		SM5210B		No. DO Deplete Fail					
280-17248-A-2	062111JE	SM5210B	T	No. DO Deplete Fail	141	25 mL	7.71 mg/L	6.80 mg/L	0.91 mg/L

Lab Sample ID	Client Sample ID	Method Chain	Basis	Bot2BOD	Bot2Use	Bot3Num	Bot3Amt	Bot3IDO	Bot3FDO
LCS 280-73229/34		SM5210B							
LCSD 280-73229/35		SM5210B							
MB 280-73229/36		SM5210B							
280-17248-A-2	062111JE	SM5210B	T	0.072 mg/L	No. DO Deplete Fail	142	60 mL	7.90 mg/L	6.90 mg/L

Lab Sample ID	Client Sample ID	Method Chain	Basis	Bot3Dep	Bot3BOD	Bot3Use	Bot4Num	Bot4Amt	Bot4IDO
LCS 280-73229/34		SM5210B							

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 73229 Batch Start Date: 06/22/11 05:22 Batch Analyst: Ayala, Delaina

Batch Method: SM5210B Batch End Date: 06/27/11 11:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	Bot3Dep	Bot3BOD	Bot3Use	Bot4Num	Bot4Amt	Bot4IDO
LCSD 280-73229/35		SM5210B							
MB 280-73229/36		SM5210B							
280-17248-A-2	062111JE	SM5210B	T	1 mg/L	0.48 mg/L	NO. Deplete Fail	143	120 mL	8.28 mg/L

Lab Sample ID	Client Sample ID	Method Chain	Basis	Bot4FDO	Bot4Dep	Bot4BOD	Bot4Use	Bot5Num	Bot5Amt
LCS 280-73229/34		SM5210B							
LCSD 280-73229/35		SM5210B							
MB 280-73229/36		SM5210B							
280-17248-A-2	062111JE	SM5210B	T	7.29 mg/L	0.99 mg/L	0.215 mg/L	NO. Deplete Fail	144	240 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Bot5IDO	Bot5FDO	Bot5Dep	Bot5BOD	Bot5Use	CalcMsg
LCS 280-73229/34		SM5210B							BOD OK
LCSD 280-73229/35		SM5210B							BOD OK
MB 280-73229/36		SM5210B							No dilutions passed.
280-17248-A-2	062111JE	SM5210B	T	9.14 mg/L	7.62 mg/L	1.52 mg/L	0.77 mg/L	NO. Deplete Fail	No dilutions passed.

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	BOD Daily LCS 00330				
LCS 280-73229/34		SM5210B		300 mL	6 mL				
LCSD 280-73229/35		SM5210B		300 mL	6 mL				
MB 280-73229/36		SM5210B		300 mL					
280-17248-A-2	062111JE	SM5210B	T	300 mL					

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-17248-1

SDG No.:

Batch Number: 73229 Batch Start Date: 06/22/11 05:22 Batch Analyst: Ayala, Delaina

Batch Method: SM5210B Batch End Date: 06/27/11 11:30

Batch Notes	
Batch Comment	0342-11 x:2-16/ h20 ph 7.15/ ysi 5100 02g0238
Incubator ID	BOD2
Nitrification Inhibitor ID	3275-09 x:8-12
Nominal Amount Used	300 mL
Perform Calculation (0=No, 1=Yes)	1
Amount of Seed added to each Sample	4 mL
Seed Correction	0.904 mg/L
Seed Lot	1488-10 x:3-12/ seeded at 1330/ seed window 1130-1730

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: FPM Engineering Group, PC

Job Number: 280-17248-1

Login Number: 17248

List Source: TestAmerica Denver

List Number: 1

Creator: Philipp, Nicholas A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	