



INTERA Incorporated
6000 Uptown Boulevard NE
Suite 220
Albuquerque, NM 87110
Telephone: 505 246 1600
Fax: 505 246 2600

May 13, 2013

Ms. Suzanne Busch
City of Albuquerque
Environmental Health Department
P.O. Box 1293
One Civic Plaza, Room 7057
Albuquerque, New Mexico 87103

RE INTERA Review of City of Albuquerque Environmental Health Department (AEHD) Ground Water Monitoring at the Nazareth/Coronado Landfill (NCLF), Albuquerque, New Mexico

Dear Ms. Busch:

INTERA, Incorporated (INTERA) is pleased to provide the following summary of our review of recent ground water monitoring activities conducted by the City of Albuquerque Environmental Health Department (AEHD) at the former Nazareth/Coronado Landfill (NCLF) located in northeast Albuquerque, New Mexico. The former Coronado landfill consists of three separate cells located just east of San Mateo Boulevard, between Venice and Modesto Avenues. The majority of the waste has been removed from the Coronado Landfill to prepare the property for redevelopment. The former Nazareth Landfill is located approximately one-quarter mile west of the former Coronado Landfill.

INTRODUCTION

AEHD installed nine monitoring wells (NCLF-01 through NCLF-09) near the NCLF between 1997 and 1999. The well locations are shown on Figure 1. These monitoring wells have been monitored and sampled at least annually since 1997. Ground water elevation data is measured quarterly by AEHD in the nine (9) monitoring wells. The 1998, 2000, 2002, 2004, 2008, 2010, and 2012 ground water table elevation maps are included as Figures 2 through 8, respectively. Depth to ground water varies from 172 feet below ground surface (bgs) in monitoring well NCLF-6 to approximately 245 feet bgs in monitoring well NCLF-4 (AEHD, 2002). The general ground water flow direction is toward the southeast.

GEOLOGY

The NCLF is underlain by a series of inter-fingering alluvial and fluvial deposits. The upper 70-100 feet of material is composed of silt, sand and gravel - primarily alluvial deposits derived from the Sandia Mountains, but also containing some over-bank deposits and ancestral Rio Grande deposits. The Edith member of the Santa Fe Formation underlies the alluvial deposits



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and consists of gravel, sand, silt and clay deposits derived from axial river and floodplain sources. The Edith member is 70 to 110 feet thick below the site. The water table occurs within the underlying Upper Buff member of the Santa Fe Formation. These deposits are moderately well indurated and contain more clay, silty sand and sand. The Santa Fe Formation extends for several thousand feet (AEHD, 2002).

SITE HISTORY

Several environmental investigations have been conducted by the Environmental Protection Agency (EPA), the New Mexico Environment Department (NMED), AEHD, and private parties at the NCLF since 1981. The primary contaminant of concern in ground water has been determined to be tetrachloroethene (PCE).

GROUND WATER MONITORING RESULTS

PCE data for wells installed by AEHD are presented in the time-series graphs attached to this report. The PCE extends from 2006 to 2012. PCE concentrations are generally decreasing in monitoring wells NCLF-3, NCLF-4, NCLF-6, NCLF-7, NCLF-8 and NCLF-9 and are below 3.0 micrograms per liter ($\mu\text{g/L}$). The concentration of PCE in monitoring well NCLF-2 has consistently been at the EPA Maximum Contaminant Level (MCL) of 5.0 $\mu\text{g/L}$ over the entire period of ground water monitoring. A subset of ground water monitoring data is included in the tables section of this report. PCE is generally not detectable in monitoring well NCLF-5. PCE has only been reported in monitoring well NCLF-1 on one occasion. This is likely a false positive value (AEHD, 2002). PCE concentration maps for 1998, 2000, 2002, 2004, 2008, 2010, and 2012 are included as Figures 9 through 15 in the figures section of this report.

RECOMMEDATIONS

The local groundwater flow direction has been consistently to the southeast over the period of ground water monitoring. PCE concentrations in the NCLF monitoring wells are generally decreasing over time with the exception of monitoring well NCLF-2 where the PCE concentration has generally stabilized at the EPA MCL. INTERA recommends that the AEHD continue annual monitoring but may consider a reduced sampling suite or eliminating monitoring wells NCLF-1 and NCLF-5 from the sampling program every other year. INTERA further recommends that the AEHD continue measuring ground water levels to confirm the depth to ground water and ground water flow direction.



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Thank you for the opportunity to continue to provide services to the COA. Please contact me with any questions or comments.

Sincerely,
INTERA Incorporated

A handwritten signature in black ink, appearing to read "J. J. Tracy". The signature is fluid and cursive, with a prominent loop at the end.

Joseph J. Tracy
Project Manager

Enclosures: Tables
Figures
Graphs

cc. Mr. Billy Gallegos, City of Albuquerque Environmental Health Department

Tables

Nazareth/Coronado Landfill

Sampling History

Location	Sample ID	Sample Date
NCLF1	OR200600585	3/30/2006
	OR200800566	4/25/2007
	OR200801079	5/8/2008
	OR200901118	5/12/2009
	05132010NCLF01	5/13/2010
	05132010TB01	5/13/2010
	MWNCLF01_201105271015	5/27/2011
	NCLF1_201206051405	6/5/2012
NCLF2	OR200600556	3/28/2006
	OR200700572	4/27/2007
	OR200800959	5/1/2008
	OR200901257	5/14/2009
	200298234	5/14/2009
	OR200901258	5/14/2009
	05182010NCLF02	5/18/2010
	05182010TB01	5/18/2010
	MWNCLF02_201105271150	5/27/2011
	MWNCLF02_201105271150TB	5/27/2011
	NCLF2_201205301500	5/30/2012
	NCLF2_201205301500TB	5/30/2012
	NCLF3	OR200600558
OR200800580		4/30/2007
OR200800908		4/29/2008
05112010NCLF03		5/11/2010
05112010TB01		5/11/2010
MWNCLF03_201105231530		5/23/2011
MWNCLF03_201105231530TB		5/23/2011
NCLF3_201205311530		5/31/2012
NCLF4	OR200600557	3/28/2006
	OR200800573	4/27/2007
	OR200800909	4/29/2008
	OR200901260	5/15/2009
	05172010NCLF04	5/17/2010
	05172010NCLF04DUP	5/17/2010
	MWNCLF04_201105261430	5/26/2011
	MWNCLF04_201105261430TB	5/26/2011
	NCLF4_201206051120	6/5/2012
NCLF5	OR200600580	3/29/2006
	OR200700567	4/26/2007
	OR200801080	5/8/2008
	OR200901120	5/12/2009
	05132010NCLF05	5/13/2010
	MWNCLF05_201105261030	5/26/2011
	NCLF5_201206041430	6/4/2012
	NCLF5_201206041430TB	6/4/2012

Nazareth/Coronado Landfill

Sampling History

Location	Sample ID	Sample Date
NCLF6	OR200600586	3/30/2006
	OR200800568	4/26/2007
	OR200800958	5/12/2008
	OR200901153	5/13/2009
	05172010NCLF06	5/17/2010
	05172010TB01	5/17/2010
	MWNCLF06_201105261230	5/26/2011
	NCLF6_201206061245	6/6/2012
	NCLF6_201206061245TB	6/6/2012
NCLF7	OR200600579	3/29/2006
	OR200800581	4/30/2007
	OR200800957	5/1/2008
	OR200901154	5/13/2009
	05122010NCLF07	5/12/2010
	MWNCLF07_201105241430	5/24/2011
	NCLF7_201206061100	6/6/2012
NCLF8	OR200600578	3/29/2006
	OR200700574	4/27/2007
	OR200800910	4/28/2008
	OR200901087	5/11/2009
	05122010TB01	5/12/2010
	05122010NCLF08	5/12/2010
	MWNCLF08_201105241130	5/24/2011
	MWNCLF08_201105241130TB	5/24/2011
	NCLF8_201206041240	6/4/2012
NCLF9	OR200700676	5/14/2007
	OR200800956	5/2/2008
	OR200901259	5/14/2009
	05142010NCLF09	5/14/2010
	05142010TB01	5/14/2010
	MWNCLF09_201105251615	5/25/2011
	MWNCLF09_201105251615TB	5/25/2011
	NCLF9_201206011512	6/1/2012
NCLF9_201206011512TB	6/1/2012	

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF1			
		MCL		Sample ID:	Sample ID:	Sample ID:	Sample ID:
		NMAC	EPA	OR200600585	05132010NCLF01	MW/NCLF01_201105271015	NCLF1_201206051405
Chemical Name	Unit			Sample Date: 3/30/2006	Sample Date: 5/13/2010	Sample Date: 5/27/2011	Sample Date: 6/5/2012
Total Trihalomethanes	ug/l	na	80				
Toluene	ug/l	750	1000				
Total Carbon Dioxide	mg/l	na	na		210	220	
Dibromochloromethane	ug/l	na	60				
Tetrachloroethene	ug/l	20	5				
Nitrogen, Nitrate (As N)	mg/l	10	10		0.59	0.71	
Nitrogen, Nitrite (As N)	mg/l	na	1				
Sulfate	mg/l	600	250		100	100	
Chloride	mg/l	250	250		32	29	
Fluoride	mg/l	1.6	2		0.27	0.27	
Bromide	mg/l	na	na		0.29	0.32	
Carbonate	mg/l	na	na		300	330	
Chloroform	ug/l	100	na				
Bicarbonate	mg/l	na	na		230	240	
Alkalinity, Total (As CaCO3)	mg/l	na	na		230	240	
Aluminum	mg/l	5	0.2				
Magnesium	mg/l	na	na		14	14	
Manganese	mg/l	0.2	0.05		0.54	0.61	
Potassium	mg/l	na	na		5.2	5.1	
Sodium	mg/l	na	na		37	37	
Strontium	mg/l	na	na		0.68	0.73	
Arsenic	mg/l	0.1	0.01		0.0032		
Barium	mg/l	1	2		0.18	0.2	
Boron	mg/l	0.75	na		0.086	0.092	
Copper	mg/l	1	1.3				
Zinc	mg/l	10	5				
Calcium	mg/l	na	na		95	110	
Methylene chloride	ug/l	100	5				
Bromoform	ug/l	na	na				
Bromodichloromethane	ug/l	na	na				
Dichlorodifluoromethane	ug/l	na	na				
Silica	mg/l	na	na		33	35	
Nitrogen, Total	mg/l	na	na				
Selenium	mg/l	50	50		0.003		
2-Butanone (MEK)	ug/l	na	na	2.7			
Trichloroethene	ug/l	100	5				
Naphthalene	ug/l	30	na				
CO3 / Carbonate	mg/l	na	na				
Field Specific Conductivity	us/cm	na	na			754	767
Field Dissolved Oxygen	mg/l	na	na			3.13	1.12
Field Eh Redox potential	mv	na	na			19.3	60.3
Field pH	pH	bet 6 & 9	na			7.55	7.51
Field Temperature C	C	na	na			17.22	18.34
Field Turbidity	NTU	na	na			0.51	0.28
Bicarbonate / HCO3	mg/l	na	na				
pH	pH	bet 6 & 9	na		7.87	8.1	
Total Dissolved Solids	mg/l	1000	500		496	515	

Nazareth/Coronado Landfill

Location, sample ID, and sample date

Chemical Name	Unit	MCL		Sampling Location: NCLF2		
		NMAC	EPA	Sample ID:	Sample ID:	Sample ID:
				OR200600556	OR200700572	OR200800959
				Sample Date: 3/28/2006	Sample Date: 4/27/2007	Sample Date: 5/1/2008
Total Trihalomethanes	ug/l	na	80		0.2	
Toluene	ug/l	750	1000			
Total Carbon Dioxide	mg/l	na	na			
Dibromochloromethane	ug/l	na	60			
Tetrachloroethene	ug/l	20	5	6.1	5.8	5.6
Nitrogen, Nitrate (As N)	mg/l	10	10			
Nitrogen, Nitrite (As N)	mg/l	na	1			
Sulfate	mg/l	600	250			
Chloride	mg/l	250	250			
Fluoride	mg/l	1.6	2			
Bromide	mg/l	na	na			
Carbonate	mg/l	na	na			
Chloroform	ug/l	100	na		0.2	
Bicarbonate	mg/l	na	na			
Alkalinity, Total (As CaCO3)	mg/l	na	na			
Aluminum	mg/l	5	0.2			
Magnesium	mg/l	na	na			
Manganese	mg/l	0.2	0.05			
Potassium	mg/l	na	na			
Sodium	mg/l	na	na			
Strontium	mg/l	na	na			
Arsenic	mg/l	0.1	0.01			
Barium	mg/l	1	2			
Boron	mg/l	0.75	na			
Copper	mg/l	1	1.3			
Zinc	mg/l	10	5			
Calcium	mg/l	na	na			
Methylene chloride	ug/l	100	5		0.7	1.1
Bromoform	ug/l	na	na			
Bromodichloromethane	ug/l	na	na			
Dichlorodifluoromethane	ug/l	na	na			
Silica	mg/l	na	na			
Nitrogen, Total	mg/l	na	na			
Selenium	mg/l	50	50			
2-Butanone (MEK)	ug/l	na	na	4		
Trichloroethene	ug/l	100	5			
Naphthalene	ug/l	30	na			
CO3 / Carbonate	mg/l	na	na			
Field Specific Conductivity	us/cm	na	na			
Field Dissolved Oxygen	mg/l	na	na			
Field Eh Redox potential	mv	na	na			
Field pH	pH	bet 6 & 9	na			
Field Temperature C	C	na	na			
Field Turbidity	NTU	na	na			
Bicarbonate / HCO3	mg/l	na	na			
pH	pH	bet 6 & 9	na			
Total Dissolved Solids	mg/l	1000	500			

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF2 (continued)		
		MCL		Sample ID:	Sample ID:	Sample ID:
		NMAC	EPA	OR200901257	200298234	OR200901258
Chemical Name	Unit			Sample Date: 5/14/2009	Sample Date: 5/14/2009	Sample Date: 5/14/2009
Total Trihalomethanes	ug/l	na	80			
Toluene	ug/l	750	1000			
Total Carbon Dioxide	mg/l	na	na			
Dibromochloromethane	ug/l	na	60			
Tetrachloroethene	ug/l	20	5	6.9		6.5
Nitrogen, Nitrate (As N)	mg/l	10	10		0.64	
Nitrogen, Nitrite (As N)	mg/l	na	1		0.05	
Sulfate	mg/l	600	250		114	
Chloride	mg/l	250	250		28.4	
Fluoride	mg/l	1.6	2			
Bromide	mg/l	na	na			
Carbonate	mg/l	na	na			
Chloroform	ug/l	100	na			
Bicarbonate	mg/l	na	na			
Alkalinity, Total (As CaCO3)	mg/l	na	na			
Aluminum	mg/l	5	0.2			
Magnesium	mg/l	na	na		15.6	
Manganese	mg/l	0.2	0.05			
Potassium	mg/l	na	na		4.12	
Sodium	mg/l	na	na		35.3	
Strontium	mg/l	na	na			
Arsenic	mg/l	0.1	0.01		0.001075	
Barium	mg/l	1	2			
Boron	mg/l	0.75	na			
Copper	mg/l	1	1.3			
Zinc	mg/l	10	5			
Calcium	mg/l	na	na		107	
Methylene chloride	ug/l	100	5			
Bromoform	ug/l	na	na			
Bromodichloromethane	ug/l	na	na			
Dichlorodifluoromethane	ug/l	na	na			
Silica	mg/l	na	na			
Nitrogen, Total	mg/l	na	na			
Selenium	mg/l	50	50			
2-Butanone (MEK)	ug/l	na	na			
Trichloroethene	ug/l	100	5			
Naphthalene	ug/l	30	na			
CO3 / Carbonate	mg/l	na	na		0.75	
Field Specific Conductivity	us/cm	na	na			
Field Dissolved Oxygen	mg/l	na	na			
Field Eh Redox potential	mv	na	na			
Field pH	pH	bet 6 & 9	na			
Field Temperature C	C	na	na			
Field Turbidity	NTU	na	na			
Bicarbonate / HCO3	mg/l	na	na		246.23	
pH	pH	bet 6 & 9	na			
Total Dissolved Solids	mg/l	1000	500		526	

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF2 (continued)		
		MCL		Sample ID:	Sample ID:	Sample ID:
Chemical Name	Unit	NMAC	EPA	05182010NCLF02	MWNCLF02_201105271150	NCLF2_201205301500
				Sample Date: 5/18/2010	Sample Date: 5/27/2011	Sample Date: 5/30/2012
Total Trihalomethanes	ug/l	na	80			
Toluene	ug/l	750	1000			
Total Carbon Dioxide	mg/l	na	na	210	220	220
Dibromochloromethane	ug/l	na	60			
Tetrachloroethene	ug/l	20	5	5.9	5.6	5.3
Nitrogen, Nitrate (As N)	mg/l	10	10	0.57	0.69	0.62
Nitrogen, Nitrite (As N)	mg/l	na	1			
Sulfate	mg/l	600	250	120	110	120
Chloride	mg/l	250	250	30	27	28
Fluoride	mg/l	1.6	2	0.2	0.21	0.19
Bromide	mg/l	na	na	0.25	0.31	0.32
Carbonate	mg/l	na	na	340	320	340
Chloroform	ug/l	100	na			
Bicarbonate	mg/l	na	na	230	240	240
Alkalinity, Total (As CaCO3)	mg/l	na	na	230	240	240
Aluminum	mg/l	5	0.2			
Magnesium	mg/l	na	na	16	16	16
Manganese	mg/l	0.2	0.05			
Potassium	mg/l	na	na	4	3.9	4.2
Sodium	mg/l	na	na	34	34	36
Strontium	mg/l	na	na	0.75	0.7	0.76
Arsenic	mg/l	0.1	0.01	0.0018		0.0017
Barium	mg/l	1	2	0.072	0.079	0.073
Boron	mg/l	0.75	na	0.095	0.1	0.12
Copper	mg/l	1	1.3			
Zinc	mg/l	10	5			
Calcium	mg/l	na	na	110	100	110
Methylene chloride	ug/l	100	5			
Bromoform	ug/l	na	na			
Bromodichloromethane	ug/l	na	na			
Dichlorodifluoromethane	ug/l	na	na			
Silica	mg/l	na	na	33	31	32
Nitrogen, Total	mg/l	na	na			
Selenium	mg/l	50	50	0.0041		0.0027
2-Butanone (MEK)	ug/l	na	na			
Trichloroethene	ug/l	100	5			
Naphthalene	ug/l	30	na			
CO3 / Carbonate	mg/l	na	na			
Field Specific Conductivity	us/cm	na	na		770	752
Field Dissolved Oxygen	mg/l	na	na		5.11	3.24
Field Eh Redox potential	mv	na	na		73.9	112.2
Field pH	pH	bet 6 & 9	na		7.71	6.83
Field Temperature C	C	na	na		17.64	18.86
Field Turbidity	NTU	na	na		0.23	0.12
Bicarbonate / HCO3	mg/l	na	na			
pH	pH	bet 6 & 9	na	7.66	7.87	7.6
Total Dissolved Solids	mg/l	1000	500	508	528	509

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF3			
		MCL		Sample ID:	Sample ID:	Sample ID:	Sample ID:
		NMAC	EPA	OR200600558	OR200800580	OR200800908	05112010NCLF03
Chemical Name	Unit			Sample Date: 3/28/2006	Sample Date: 4/30/2007	Sample Date: 4/29/2008	Sample Date: 5/11/2010
Total Trihalomethanes	ug/l	na	80				
Toluene	ug/l	750	1000			0.2	
Total Carbon Dioxide	mg/l	na	na				280
Dibromochloromethane	ug/l	na	60				
Tetrachloroethene	ug/l	20	5	3.9	4.4	3.1	2.4
Nitrogen, Nitrate (As N)	mg/l	10	10				1.3
Nitrogen, Nitrite (As N)	mg/l	na	1				
Sulfate	mg/l	600	250				110
Chloride	mg/l	250	250				30
Fluoride	mg/l	1.6	2				0.13
Bromide	mg/l	na	na				0.27
Carbonate	mg/l	na	na				410
Chloroform	ug/l	100	na				
Bicarbonate	mg/l	na	na				290
Alkalinity, Total (As CaCO3)	mg/l	na	na				290
Aluminum	mg/l	5	0.2				
Magnesium	mg/l	na	na				19
Manganese	mg/l	0.2	0.05				0.0021
Potassium	mg/l	na	na				4.4
Sodium	mg/l	na	na				29
Strontium	mg/l	na	na				0.84
Arsenic	mg/l	0.1	0.01				0.0013
Barium	mg/l	1	2				0.12
Boron	mg/l	0.75	na				0.099
Copper	mg/l	1	1.3				
Zinc	mg/l	10	5				
Calcium	mg/l	na	na				130
Methylene chloride	ug/l	100	5		0.9	1.1	
Bromoform	ug/l	na	na				
Bromodichloromethane	ug/l	na	na				
Dichlorodifluoromethane	ug/l	na	na				
Silica	mg/l	na	na				38
Nitrogen, Total	mg/l	na	na				1.3
Selenium	mg/l	50	50				0.004
2-Butanone (MEK)	ug/l	na	na	2.2			
Trichloroethene	ug/l	100	5				
Naphthalene	ug/l	30	na				
CO3 / Carbonate	mg/l	na	na				
Field Specific Conductivity	us/cm	na	na				
Field Dissolved Oxygen	mg/l	na	na				
Field Eh Redox potential	mv	na	na				
Field pH	pH	bet 6 & 9	na				
Field Temperature C	C	na	na				
Field Turbidity	NTU	na	na				
Bicarbonate / HCO3	mg/l	na	na				
pH	pH	bet 6 & 9	na				7.37
Total Dissolved Solids	mg/l	1000	500				576

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF3 (continued)		
		MCL		Sample ID:	Sample ID:	Sample ID:
Chemical Name	Unit	NMAC	EPA	MW/NCLF03_201105231530	MW/NCLF03_201105231530TB	NCLF3_201205311530
				Sample Date: 5/23/2011	Sample Date: 5/23/2011	Sample Date: 5/31/2012
Total Trihalomethanes	ug/l	na	80			
Toluene	ug/l	750	1000			3
Total Carbon Dioxide	mg/l	na	na	290		280
Dibromochloromethane	ug/l	na	60			
Tetrachloroethene	ug/l	20	5	2.3		1.5
Nitrogen, Nitrate (As N)	mg/l	10	10	1.6		1.4
Nitrogen, Nitrite (As N)	mg/l	na	1			
Sulfate	mg/l	600	250	120		110
Chloride	mg/l	250	250	30		32
Fluoride	mg/l	1.6	2	0.11		
Bromide	mg/l	na	na	0.32		0.37
Carbonate	mg/l	na	na	420		
Chloroform	ug/l	100	na			
Bicarbonate	mg/l	na	na	310		290
Alkalinity, Total (As CaCO3)	mg/l	na	na	310		290
Aluminum	mg/l	5	0.2			
Magnesium	mg/l	na	na	20		20
Manganese	mg/l	0.2	0.05	0.0026		
Potassium	mg/l	na	na	4.7		4.4
Sodium	mg/l	na	na	31		30
Strontium	mg/l	na	na	0.91		0.87
Arsenic	mg/l	0.1	0.01	0.0012		0.0014
Barium	mg/l	1	2	0.12		0.11
Boron	mg/l	0.75	na	0.095		0.095
Copper	mg/l	1	1.3			0.0061
Zinc	mg/l	10	5	0.01		0.012
Calcium	mg/l	na	na	140		130
Methylene chloride	ug/l	100	5			
Bromoform	ug/l	na	na			
Bromodichloromethane	ug/l	na	na			
Dichlorodifluoromethane	ug/l	na	na			
Silica	mg/l	na	na	40		36
Nitrogen, Total	mg/l	na	na	1.6		1.4
Selenium	mg/l	50	50	0.0026		0.0028
2-Butanone (MEK)	ug/l	na	na			
Trichloroethene	ug/l	100	5			
Naphthalene	ug/l	30	na			
CO3 / Carbonate	mg/l	na	na			
Field Specific Conductivity	us/cm	na	na		891	848
Field Dissolved Oxygen	mg/l	na	na		3.63	1.93
Field Eh Redox potential	mv	na	na		63.7	80.7
Field pH	pH	bet 6 & 9	na		6.81	7.1
Field Temperature C	C	na	na		29.12	34.56
Field Turbidity	NTU	na	na		1.07	0.36
Bicarbonate / HCO3	mg/l	na	na			
pH	pH	bet 6 & 9	na	7.5		7.45
Total Dissolved Solids	mg/l	1000	500	582		575

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF4			
		MCL		Sample ID:	Sample ID:	Sample ID:	Sample ID:
		NMAC	EPA	OR200600557	OR200800573	OR200800909	OR200901260
Chemical Name	Unit			Sample Date: 3/28/2006	Sample Date: 4/27/2007	Sample Date: 4/29/2008	Sample Date: 5/15/2009
Total Trihalomethanes	ug/l	na	80		0.3		
Toluene	ug/l	750	1000				
Total Carbon Dioxide	mg/l	na	na				
Dibromochloromethane	ug/l	na	60			0.8	0.4
Tetrachloroethene	ug/l	20	5	2.3	4.7	3.5	3.8
Nitrogen, Nitrate (As N)	mg/l	10	10				
Nitrogen, Nitrite (As N)	mg/l	na	1				
Sulfate	mg/l	600	250				
Chloride	mg/l	250	250				
Fluoride	mg/l	1.6	2				
Bromide	mg/l	na	na				
Carbonate	mg/l	na	na				
Chloroform	ug/l	100	na		0.3	0.5	0.3
Bicarbonate	mg/l	na	na				
Alkalinity, Total (As CaCO3)	mg/l	na	na				
Aluminum	mg/l	5	0.2				
Magnesium	mg/l	na	na				
Manganese	mg/l	0.2	0.05				
Potassium	mg/l	na	na				
Sodium	mg/l	na	na				
Strontium	mg/l	na	na				
Arsenic	mg/l	0.1	0.01				
Barium	mg/l	1	2				
Boron	mg/l	0.75	na				
Copper	mg/l	1	1.3				
Zinc	mg/l	10	5				
Calcium	mg/l	na	na				
Methylene chloride	ug/l	100	5	0.8	0.9	1.3	
Bromoform	ug/l	na	na			0.2	
Bromodichloromethane	ug/l	na	na			0.6	0.4
Dichlorodifluoromethane	ug/l	na	na	0.3	0.9		
Silica	mg/l	na	na				
Nitrogen, Total	mg/l	na	na				
Selenium	mg/l	50	50				
2-Butanone (MEK)	ug/l	na	na	4			
Trichloroethene	ug/l	100	5	0.4	0.6	0.5	0.4
Naphthalene	ug/l	30	na				
CO3 / Carbonate	mg/l	na	na				
Field Specific Conductivity	us/cm	na	na				
Field Dissolved Oxygen	mg/l	na	na				
Field Eh Redox potential	mv	na	na				
Field pH	pH	bet 6 & 9	na				
Field Temperature C	C	na	na				
Field Turbidity	NTU	na	na				
Bicarbonate / HCO3	mg/l	na	na				
pH	pH	bet 6 & 9	na				
Total Dissolved Solids	mg/l	1000	500				

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF4 (continued)			
		MCL		Sample ID:	Sample ID:	Sample ID:	Sample ID:
Chemical Name	Unit	NMAC	EPA	05172010NCLF04	05172010NCLF04DUP	MW/NCLF04_201105261430	NCLF4_201206051120
				Sample Date: 5/17/2010	Sample Date: 5/17/2010	Sample Date: 5/26/2011	Sample Date: 6/5/2012
Total Trihalomethanes	ug/l	na	80				
Toluene	ug/l	750	1000				
Total Carbon Dioxide	mg/l	na	na	280	270	280	
Dibromochloromethane	ug/l	na	60				
Tetrachloroethene	ug/l	20	5	3.1	3.1	2.9	
Nitrogen, Nitrate (As N)	mg/l	10	10	12	12	9.2	
Nitrogen, Nitrite (As N)	mg/l	na	1				
Sulfate	mg/l	600	250	580	560	710	
Chloride	mg/l	250	250	100	100	110	
Fluoride	mg/l	1.6	2	0.11	0.13	0.18	
Bromide	mg/l	na	na	0.97	0.95	1.2	
Carbonate	mg/l	na	na	710	710	790	
Chloroform	ug/l	100	na				
Bicarbonate	mg/l	na	na	300	290	290	
Alkalinity, Total (As CaCO3)	mg/l	na	na	300	290	290	
Aluminum	mg/l	5	0.2				
Magnesium	mg/l	na	na	33	33	37	
Manganese	mg/l	0.2	0.05				
Potassium	mg/l	na	na	7.2	7.2	7.4	
Sodium	mg/l	na	na	160	160	170	
Strontium	mg/l	na	na	1.5	1.5	1.8	
Arsenic	mg/l	0.1	0.01	0.0035	0.0036		
Barium	mg/l	1	2	0.027	0.027	0.028	
Boron	mg/l	0.75	na	0.14	0.14	0.14	
Copper	mg/l	1	1.3				
Zinc	mg/l	10	5				
Calcium	mg/l	na	na	230	230	260	
Methylene chloride	ug/l	100	5				
Bromoform	ug/l	na	na				
Bromodichloromethane	ug/l	na	na				
Dichlorodifluoromethane	ug/l	na	na				
Silica	mg/l	na	na	33	33	36	
Nitrogen, Total	mg/l	na	na	12	12	9.2	
Selenium	mg/l	50	50	0.02	0.02		
2-Butanone (MEK)	ug/l	na	na				
Trichloroethene	ug/l	100	5				
Naphthalene	ug/l	30	na				
CO3 / Carbonate	mg/l	na	na				
Field Specific Conductivity	us/cm	na	na			2156	1784
Field Dissolved Oxygen	mg/l	na	na			5.86	2.47
Field Eh Redox potential	mv	na	na			59.4	125.2
Field pH	pH	bet 6 & 9	na			6.68	6.55
Field Temperature C	C	na	na			18.56	17.74
Field Turbidity	NTU	na	na			0.23	0.14
Bicarbonate / HCO3	mg/l	na	na				
pH	pH	bet 6 & 9	na	7.47	7.49	7.37	
Total Dissolved Solids	mg/l	1000	500	1370	1380	1630	

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF5		
				Sample ID:	Sample ID:	Sample ID:
				OR200600580	OR200801080	05132010NCLF05
				Sample Date: 3/29/2006	Sample Date: 5/8/2008	Sample Date: 5/13/2010
Chemical Name	Unit	MCL				
		NMAC	EPA			
Total Trihalomethanes	ug/l	na	80			
Toluene	ug/l	750	1000			
Total Carbon Dioxide	mg/l	na	na			190
Dibromochloromethane	ug/l	na	60			
Tetrachloroethene	ug/l	20	5			
Nitrogen, Nitrate (As N)	mg/l	10	10			1
Nitrogen, Nitrite (As N)	mg/l	na	1			
Sulfate	mg/l	600	250			96
Chloride	mg/l	250	250			24
Fluoride	mg/l	1.6	2			0.24
Bromide	mg/l	na	na			0.14
Carbonate	mg/l	na	na			270
Chloroform	ug/l	100	na			
Bicarbonate	mg/l	na	na			200
Alkalinity, Total (As CaCO3)	mg/l	na	na			200
Aluminum	mg/l	5	0.2			0.04
Magnesium	mg/l	na	na			12
Manganese	mg/l	0.2	0.05			0.15
Potassium	mg/l	na	na			4.1
Sodium	mg/l	na	na			35
Strontium	mg/l	na	na			0.57
Arsenic	mg/l	0.1	0.01			0.0029
Barium	mg/l	1	2			0.15
Boron	mg/l	0.75	na			0.091
Copper	mg/l	1	1.3			
Zinc	mg/l	10	5			
Calcium	mg/l	na	na			88
Methylene chloride	ug/l	100	5	9		
Bromoform	ug/l	na	na			
Bromodichloromethane	ug/l	na	na			
Dichlorodifluoromethane	ug/l	na	na		1.2	
Silica	mg/l	na	na			28
Nitrogen, Total	mg/l	na	na			1
Selenium	mg/l	50	50			0.0037
2-Butanone (MEK)	ug/l	na	na	2.1		
Trichloroethene	ug/l	100	5			
Naphthalene	ug/l	30	na			
CO3 / Carbonate	mg/l	na	na			
Field Specific Conductivity	us/cm	na	na			
Field Dissolved Oxygen	mg/l	na	na			
Field Eh Redox potential	mv	na	na			
Field pH	pH	bet 6 & 9	na			
Field Temperature C	C	na	na			
Field Turbidity	NTU	na	na			
Bicarbonate / HCO3	mg/l	na	na			
pH	pH	bet 6 & 9	na			7.85
Total Dissolved Solids	mg/l	1000	500			434

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF5 (continued)	
				Sample ID:	Sample ID:
				MW/NCLF05_201105261030	NCLF5_201206041430
				Sample Date: 5/26/2011	Sample Date: 6/4/2012
Chemical Name	Unit	MCL			
		NMAC	EPA		
Total Trihalomethanes	ug/l	na	80		
Toluene	ug/l	750	1000		
Total Carbon Dioxide	mg/l	na	na	290	200
Dibromochloromethane	ug/l	na	60		
Tetrachloroethene	ug/l	20	5		
Nitrogen, Nitrate (As N)	mg/l	10	10	1.1	0.91
Nitrogen, Nitrite (As N)	mg/l	na	1		
Sulfate	mg/l	600	250	83	86
Chloride	mg/l	250	250	18	19
Fluoride	mg/l	1.6	2	0.24	0.2
Bromide	mg/l	na	na	0.13	0.14
Carbonate	mg/l	na	na	260	260
Chloroform	ug/l	100	na		
Bicarbonate	mg/l	na	na	220	220
Alkalinity, Total (As CaCO3)	mg/l	na	na	220	220
Aluminum	mg/l	5	0.2		
Magnesium	mg/l	na	na	12	12
Manganese	mg/l	0.2	0.05	0.16	0.14
Potassium	mg/l	na	na	4	4.1
Sodium	mg/l	na	na	35	35
Strontium	mg/l	na	na	0.61	0.61
Arsenic	mg/l	0.1	0.01		0.0025
Barium	mg/l	1	2	0.15	0.15
Boron	mg/l	0.75	na	0.096	0.097
Copper	mg/l	1	1.3		
Zinc	mg/l	10	5		
Calcium	mg/l	na	na	85	85
Methylene chloride	ug/l	100	5		
Bromoform	ug/l	na	na		
Bromodichloromethane	ug/l	na	na		
Dichlorodifluoromethane	ug/l	na	na		
Silica	mg/l	na	na	30	29
Nitrogen, Total	mg/l	na	na	1.1	
Selenium	mg/l	50	50		0.0022
2-Butanone (MEK)	ug/l	na	na		
Trichloroethene	ug/l	100	5		
Naphthalene	ug/l	30	na		
CO3 / Carbonate	mg/l	na	na		
Field Specific Conductivity	us/cm	na	na	662	654
Field Dissolved Oxygen	mg/l	na	na	6.24	0.99
Field Eh Redox potential	mv	na	na	38.9	129.9
Field pH	pH	bet 6 & 9	na	7.47	6.97
Field Temperature C	C	na	na	16.89	17.11
Field Turbidity	NTU	na	na	0.28	0.27
Bicarbonate / HCO3	mg/l	na	na		
pH	pH	bet 6 & 9	na	8	7.86
Total Dissolved Solids	mg/l	1000	500	439	427

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF6			
		MCL		Sample ID:	Sample ID:	Sample ID:	Sample ID:
		NMAC	EPA	OR200600586	OR200800568	OR200800958	OR200901153
Chemical Name	Unit			Sample Date: 3/30/2006	Sample Date: 4/26/2007	Sample Date: 5/12/2008	Sample Date: 5/13/2009
Total Trihalomethanes	ug/l	na	80				
Toluene	ug/l	750	1000				
Total Carbon Dioxide	mg/l	na	na				
Dibromochloromethane	ug/l	na	60				
Tetrachloroethene	ug/l	20	5	2.8	2.8	2.7	2.2
Nitrogen, Nitrate (As N)	mg/l	10	10				
Nitrogen, Nitrite (As N)	mg/l	na	1				
Sulfate	mg/l	600	250				
Chloride	mg/l	250	250				
Fluoride	mg/l	1.6	2				
Bromide	mg/l	na	na				
Carbonate	mg/l	na	na				
Chloroform	ug/l	100	na				
Bicarbonate	mg/l	na	na				
Alkalinity, Total (As CaCO3)	mg/l	na	na				
Aluminum	mg/l	5	0.2				
Magnesium	mg/l	na	na				
Manganese	mg/l	0.2	0.05				
Potassium	mg/l	na	na				
Sodium	mg/l	na	na				
Strontium	mg/l	na	na				
Arsenic	mg/l	0.1	0.01				
Barium	mg/l	1	2				
Boron	mg/l	0.75	na				
Copper	mg/l	1	1.3				
Zinc	mg/l	10	5				
Calcium	mg/l	na	na				
Methylene chloride	ug/l	100	5			1.1	
Bromoform	ug/l	na	na				
Bromodichloromethane	ug/l	na	na				
Dichlorodifluoromethane	ug/l	na	na				
Silica	mg/l	na	na				
Nitrogen, Total	mg/l	na	na				
Selenium	mg/l	50	50				
2-Butanone (MEK)	ug/l	na	na	2.1			
Trichloroethene	ug/l	100	5				
Naphthalene	ug/l	30	na				
CO3 / Carbonate	mg/l	na	na				
Field Specific Conductivity	us/cm	na	na				
Field Dissolved Oxygen	mg/l	na	na				
Field Eh Redox potential	mv	na	na				
Field pH	pH	bet 6 & 9	na				
Field Temperature C	C	na	na				
Field Turbidity	NTU	na	na				
Bicarbonate / HCO3	mg/l	na	na				
pH	pH	bet 6 & 9	na				
Total Dissolved Solids	mg/l	1000	500				

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF6 (continued)		
		MCL		Sample ID:	Sample ID:	Sample ID:
Chemical Name	Unit	NMAC	EPA	05172010NCLF06	MWNCLF06_201105261230	NCLF6_201206061245
				Sample Date: 5/17/2010	Sample Date: 5/26/2011	Sample Date: 6/6/2012
Total Trihalomethanes	ug/l	na	80			
Toluene	ug/l	750	1000			
Total Carbon Dioxide	mg/l	na	na	140	320	150
Dibromochloromethane	ug/l	na	60			
Tetrachloroethene	ug/l	20	5	3	3.1	3
Nitrogen, Nitrate (As N)	mg/l	10	10	0.88	1.3	1.4
Nitrogen, Nitrite (As N)	mg/l	na	1			
Sulfate	mg/l	600	250	120	110	120
Chloride	mg/l	250	250	25	27	36
Fluoride	mg/l	1.6	2	0.2	0.19	0.2
Bromide	mg/l	na	na	0.22	0.29	0.44
Carbonate	mg/l	na	na	230	230	250
Chloroform	ug/l	100	na			
Bicarbonate	mg/l	na	na	160	170	170
Alkalinity, Total (As CaCO3)	mg/l	na	na	160	170	170
Aluminum	mg/l	5	0.2	0.05		
Magnesium	mg/l	na	na	11	11	12
Manganese	mg/l	0.2	0.05			
Potassium	mg/l	na	na	3.7	3.7	3.9
Sodium	mg/l	na	na	40	40	40
Strontium	mg/l	na	na	0.49	0.56	0.61
Arsenic	mg/l	0.1	0.01	0.0023		0.0022
Barium	mg/l	1	2	0.079	0.085	0.087
Boron	mg/l	0.75	na	0.093	0.097	0.092
Copper	mg/l	1	1.3			
Zinc	mg/l	10	5			
Calcium	mg/l	na	na	74	75	81
Methylene chloride	ug/l	100	5			
Bromoform	ug/l	na	na			
Bromodichloromethane	ug/l	na	na			
Dichlorodifluoromethane	ug/l	na	na			
Silica	mg/l	na	na	28	29	29
Nitrogen, Total	mg/l	na	na		1.3	1.4
Selenium	mg/l	50	50	0.0034		0.0038
2-Butanone (MEK)	ug/l	na	na			
Trichloroethene	ug/l	100	5			
Naphthalene	ug/l	30	na			
CO3 / Carbonate	mg/l	na	na			
Field Specific Conductivity	us/cm	na	na		650	698
Field Dissolved Oxygen	mg/l	na	na		7.31	5.7
Field Eh Redox potential	mv	na	na		53.9	113
Field pH	pH	bet 6 & 9	na		7.24	6.97
Field Temperature C	C	na	na		16.92	698
Field Turbidity	NTU	na	na		0.31	0.17
Bicarbonate / HCO3	mg/l	na	na			
pH	pH	bet 6 & 9	na	7.84	7.89	7.65
Total Dissolved Solids	mg/l	1000	500	404	441	445

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF7			
		MCL		Sample ID:	Sample ID:	Sample ID:	Sample ID:
Chemical Name	Unit	NMAC	EPA	OR200600579	OR200800581	OR200800957	OR200901154
				Sample Date: 3/29/2006	Sample Date: 4/30/2007	Sample Date: 5/1/2008	Sample Date: 5/13/2009
Total Trihalomethanes	ug/l	na	80				
Toluene	ug/l	750	1000				
Total Carbon Dioxide	mg/l	na	na				
Dibromochloromethane	ug/l	na	60				
Tetrachloroethene	ug/l	20	5	1.8	2	1.9	3
Nitrogen, Nitrate (As N)	mg/l	10	10				
Nitrogen, Nitrite (As N)	mg/l	na	1				
Sulfate	mg/l	600	250				
Chloride	mg/l	250	250				
Fluoride	mg/l	1.6	2				
Bromide	mg/l	na	na				
Carbonate	mg/l	na	na				
Chloroform	ug/l	100	na				
Bicarbonate	mg/l	na	na				
Alkalinity, Total (As CaCO3)	mg/l	na	na				
Aluminum	mg/l	5	0.2				
Magnesium	mg/l	na	na				
Manganese	mg/l	0.2	0.05				
Potassium	mg/l	na	na				
Sodium	mg/l	na	na				
Strontium	mg/l	na	na				
Arsenic	mg/l	0.1	0.01				
Barium	mg/l	1	2				
Boron	mg/l	0.75	na				
Copper	mg/l	1	1.3				
Zinc	mg/l	10	5				
Calcium	mg/l	na	na				
Methylene chloride	ug/l	100	5	1	0.9	1.2	2.6
Bromoform	ug/l	na	na				
Bromodichloromethane	ug/l	na	na				
Dichlorodifluoromethane	ug/l	na	na				
Silica	mg/l	na	na				
Nitrogen, Total	mg/l	na	na				
Selenium	mg/l	50	50				
2-Butanone (MEK)	ug/l	na	na	2.7			
Trichloroethene	ug/l	100	5				
Naphthalene	ug/l	30	na				
CO3 / Carbonate	mg/l	na	na				
Field Specific Conductivity	us/cm	na	na				
Field Dissolved Oxygen	mg/l	na	na				
Field Eh Redox potential	mv	na	na				
Field pH	pH	bet 6 & 9	na				
Field Temperature C	C	na	na				
Field Turbidity	NTU	na	na				
Bicarbonate / HCO3	mg/l	na	na				
pH	pH	bet 6 & 9	na				
Total Dissolved Solids	mg/l	1000	500				

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF7 (continued)		
		MCL		Sample ID:	Sample ID:	Sample ID:
Chemical Name	Unit	NMAC	EPA	05122010NCLF07	MWNCLF07_201105241430	NCLF7_201206061100
				Sample Date: 5/12/2010	Sample Date: 5/24/2011	Sample Date: 6/6/2012
Total Trihalomethanes	ug/l	na	80			
Toluene	ug/l	750	1000			
Total Carbon Dioxide	mg/l	na	na	180	190	190
Dibromochloromethane	ug/l	na	60			
Tetrachloroethene	ug/l	20	5	1.7	1.8	1.9
Nitrogen, Nitrate (As N)	mg/l	10	10	0.88	1.1	1.2
Nitrogen, Nitrite (As N)	mg/l	na	1			
Sulfate	mg/l	600	250	96	92	96
Chloride	mg/l	250	250	23	21	23
Fluoride	mg/l	1.6	2	0.18	0.19	0.18
Bromide	mg/l	na	na	0.18	0.19	0.22
Carbonate	mg/l	na	na	290	330	270
Chloroform	ug/l	100	na			
Bicarbonate	mg/l	na	na	200	210	210
Alkalinity, Total (As CaCO3)	mg/l	na	na	200	210	210
Aluminum	mg/l	5	0.2			
Magnesium	mg/l	na	na	14	15	13
Manganese	mg/l	0.2	0.05	0.065	0.082	0.062
Potassium	mg/l	na	na	3.6	4.5	3.6
Sodium	mg/l	na	na	26	25	26
Strontium	mg/l	na	na	0.67	0.69	0.68
Arsenic	mg/l	0.1	0.01	0.0026	0.0027	0.0023
Barium	mg/l	1	2	0.12	0.14	0.11
Boron	mg/l	0.75	na	0.063	0.073	0.063
Copper	mg/l	1	1.3			0.0069
Zinc	mg/l	10	5			
Calcium	mg/l	na	na	94	110	85
Methylene chloride	ug/l	100	5			
Bromoform	ug/l	na	na			
Bromodichloromethane	ug/l	na	na			
Dichlorodifluoromethane	ug/l	na	na			
Silica	mg/l	na	na	30	31	29
Nitrogen, Total	mg/l	na	na		1.1	1.2
Selenium	mg/l	50	50	0.0029	0.0024	0.002
2-Butanone (MEK)	ug/l	na	na			
Trichloroethene	ug/l	100	5			
Naphthalene	ug/l	30	na			
CO3 / Carbonate	mg/l	na	na			
Field Specific Conductivity	us/cm	na	na		680	664
Field Dissolved Oxygen	mg/l	na	na		2.34	1.85
Field Eh Redox potential	mv	na	na		24.1	90.8
Field pH	pH	bet 6 & 9	na		7.53	7.22
Field Temperature C	C	na	na		16.92	17.39
Field Turbidity	NTU	na	na		0.3	0.45
Bicarbonate / HCO3	mg/l	na	na			
pH	pH	bet 6 & 9	na		7.99	7.81
Total Dissolved Solids	mg/l	1000	500	443	433	428

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF8			
		MCL		Sample ID:	Sample ID:	Sample ID:	Sample ID:
		NMAC	EPA	OR200600578	OR200700574	OR200800910	OR200901087
Chemical Name	Unit			Sample Date: 3/29/2006	Sample Date: 4/27/2007	Sample Date: 4/28/2008	Sample Date: 5/11/2009
Total Trihalomethanes	ug/l	na	80				
Toluene	ug/l	750	1000				
Total Carbon Dioxide	mg/l	na	na				
Dibromochloromethane	ug/l	na	60				
Tetrachloroethene	ug/l	20	5	2.8	2.3	1.9	2
Nitrogen, Nitrate (As N)	mg/l	10	10				
Nitrogen, Nitrite (As N)	mg/l	na	1				
Sulfate	mg/l	600	250				
Chloride	mg/l	250	250				
Fluoride	mg/l	1.6	2				
Bromide	mg/l	na	na				
Carbonate	mg/l	na	na				
Chloroform	ug/l	100	na				
Bicarbonate	mg/l	na	na				
Alkalinity, Total (As CaCO3)	mg/l	na	na				
Aluminum	mg/l	5	0.2				
Magnesium	mg/l	na	na				
Manganese	mg/l	0.2	0.05				
Potassium	mg/l	na	na				
Sodium	mg/l	na	na				
Strontium	mg/l	na	na				
Arsenic	mg/l	0.1	0.01				
Barium	mg/l	1	2				
Boron	mg/l	0.75	na				
Copper	mg/l	1	1.3				
Zinc	mg/l	10	5				
Calcium	mg/l	na	na				
Methylene chloride	ug/l	100	5	0.9		0.9	
Bromoform	ug/l	na	na				
Bromodichloromethane	ug/l	na	na				
Dichlorodifluoromethane	ug/l	na	na				
Silica	mg/l	na	na				
Nitrogen, Total	mg/l	na	na				
Selenium	mg/l	50	50				
2-Butanone (MEK)	ug/l	na	na	3.2			1.7
Trichloroethene	ug/l	100	5				
Naphthalene	ug/l	30	na				
CO3 / Carbonate	mg/l	na	na				
Field Specific Conductivity	us/cm	na	na				
Field Dissolved Oxygen	mg/l	na	na				
Field Eh Redox potential	mv	na	na				
Field pH	pH	bet 6 & 9	na				
Field Temperature C	C	na	na				
Field Turbidity	NTU	na	na				
Bicarbonate / HCO3	mg/l	na	na				
pH	pH	bet 6 & 9	na				
Total Dissolved Solids	mg/l	1000	500				

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF8 (continued)		
		MCL		Sample ID:	Sample ID:	Sample ID:
Chemical Name	Unit	NMAC	EPA	05122010NCLF08	MWNCLF08_201105241130	NCLF8_201206041240
				Sample Date: 5/12/2010	Sample Date: 5/24/2011	Sample Date: 6/4/2012
Total Trihalomethanes	ug/l	na	80			
Toluene	ug/l	750	1000			
Total Carbon Dioxide	mg/l	na	na	160	170	170
Dibromochloromethane	ug/l	na	60			
Tetrachloroethene	ug/l	20	5	1.4	1.4	1.3
Nitrogen, Nitrate (As N)	mg/l	10	10	0.3	0.43	0.38
Nitrogen, Nitrite (As N)	mg/l	na	1			
Sulfate	mg/l	600	250	87	85	83
Chloride	mg/l	250	250	18	19	19
Fluoride	mg/l	1.6	2	0.22	0.23	0.22
Bromide	mg/l	na	na	0.13	0.12	0.13
Carbonate	mg/l	na	na	250	280	240
Chloroform	ug/l	100	na			
Bicarbonate	mg/l	na	na	180	190	180
Alkalinity, Total (As CaCO3)	mg/l	na	na	180	190	180
Aluminum	mg/l	5	0.2			
Magnesium	mg/l	na	na	12	14	12
Manganese	mg/l	0.2	0.05	0.0096	0.016	0.015
Potassium	mg/l	na	na	3.4	4.6	3.4
Sodium	mg/l	na	na	25	25	25
Strontium	mg/l	na	na	0.56	0.59	0.56
Arsenic	mg/l	0.1	0.01	0.0026	0.0028	0.0021
Barium	mg/l	1	2	0.098	0.11	0.095
Boron	mg/l	0.75	na	0.065	0.079	0.067
Copper	mg/l	1	1.3			
Zinc	mg/l	10	5			
Calcium	mg/l	na	na	79	90	77
Methylene chloride	ug/l	100	5			
Bromoform	ug/l	na	na			
Bromodichloromethane	ug/l	na	na			
Dichlorodifluoromethane	ug/l	na	na			
Silica	mg/l	na	na	29	32	29
Nitrogen, Total	mg/l	na	na			
Selenium	mg/l	50	50	0.0019	0.001	
2-Butanone (MEK)	ug/l	na	na			
Trichloroethene	ug/l	100	5			
Naphthalene	ug/l	30	na			
CO3 / Carbonate	mg/l	na	na			
Field Specific Conductivity	us/cm	na	na		7.49	582
Field Dissolved Oxygen	mg/l	na	na		1.36	0.84
Field Eh Redox potential	mv	na	na		8.8	121.5
Field pH	pH	bet 6 & 9	na			7.35
Field Temperature C	C	na	na		15.67	17.61
Field Turbidity	NTU	na	na		0.37	0.14
Bicarbonate / HCO3	mg/l	na	na			
pH	pH	bet 6 & 9	na		7.96	7.8
Total Dissolved Solids	mg/l	1000	500	389	372	385

Nazareth/Coronado Landfill

Location, sample ID, and sample date

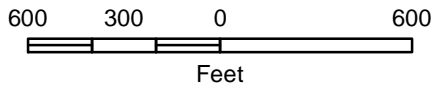
				Sampling Location: NCLF9			
		MCL		Sample ID:	Sample ID:	Sample ID:	Sample ID:
		NMAC	EPA	OR200700676	OR200800956	OR200901259	05142010NCLF09
Chemical Name	Unit			Sample Date: 5/14/2007	Sample Date: 5/2/2008	Sample Date: 5/14/2009	Sample Date: 5/14/2010
Total Trihalomethanes	ug/l	na	80			0.2	
Toluene	ug/l	750	1000		0.2	0.3	
Total Carbon Dioxide	mg/l	na	na				190
Dibromochloromethane	ug/l	na	60				
Tetrachloroethene	ug/l	20	5	0.9	1.2	0.7	
Nitrogen, Nitrate (As N)	mg/l	10	10				3.1
Nitrogen, Nitrite (As N)	mg/l	na	1				
Sulfate	mg/l	600	250				150
Chloride	mg/l	250	250				37
Fluoride	mg/l	1.6	2				0.31
Bromide	mg/l	na	na				0.36
Carbonate	mg/l	na	na				380
Chloroform	ug/l	100	na				
Bicarbonate	mg/l	na	na				210
Alkalinity, Total (As CaCO3)	mg/l	na	na				210
Aluminum	mg/l	5	0.2				
Magnesium	mg/l	na	na				21
Manganese	mg/l	0.2	0.05				
Potassium	mg/l	na	na				4.7
Sodium	mg/l	na	na				29
Strontium	mg/l	na	na				0.91
Arsenic	mg/l	0.1	0.01				0.0021
Barium	mg/l	1	2				0.13
Boron	mg/l	0.75	na				0.067
Copper	mg/l	1	1.3				
Zinc	mg/l	10	5				
Calcium	mg/l	na	na				120
Methylene chloride	ug/l	100	5		1		
Bromoform	ug/l	na	na				
Bromodichloromethane	ug/l	na	na			0.2	
Dichlorodifluoromethane	ug/l	na	na				
Silica	mg/l	na	na				29
Nitrogen, Total	mg/l	na	na				3.1
Selenium	mg/l	50	50				0.0059
2-Butanone (MEK)	ug/l	na	na				
Trichloroethene	ug/l	100	5	0.2			
Naphthalene	ug/l	30	na	0.4			
CO3 / Carbonate	mg/l	na	na				
Field Specific Conductivity	us/cm	na	na				
Field Dissolved Oxygen	mg/l	na	na				
Field Eh Redox potential	mv	na	na				
Field pH	pH	bet 6 & 9	na				
Field Temperature C	C	na	na				
Field Turbidity	NTU	na	na				
Bicarbonate / HCO3	mg/l	na	na				
pH	pH	bet 6 & 9	na				7.82
Total Dissolved Solids	mg/l	1000	500				552

Nazareth/Coronado Landfill

Location, sample ID, and sample date

				Sampling Location: NCLF9 (continued)	
				Sample ID:	Sample ID:
				MW/NCLF09_201105251615	NCLF9_201206011512
				Sample Date: 5/25/2011	Sample Date: 6/1/2012
Chemical Name	Unit	MCL			
		NMAC	EPA		
Total Trihalomethanes	ug/l	na	80		
Toluene	ug/l	750	1000		4.1
Total Carbon Dioxide	mg/l	na	na	150	160
Dibromochloromethane	ug/l	na	60		
Tetrachloroethene	ug/l	20	5		
Nitrogen, Nitrate (As N)	mg/l	10	10	11	9.1
Nitrogen, Nitrite (As N)	mg/l	na	1		
Sulfate	mg/l	600	250	280	340
Chloride	mg/l	250	250	76	74
Fluoride	mg/l	1.6	2	0.28	0.69
Bromide	mg/l	na	na	0.89	0.78
Carbonate	mg/l	na	na	560	600
Chloroform	ug/l	100	na		
Bicarbonate	mg/l	na	na	160	170
Alkalinity, Total (As CaCO3)	mg/l	na	na	160	170
Aluminum	mg/l	5	0.2		
Magnesium	mg/l	na	na	31	34
Manganese	mg/l	0.2	0.05	0.0021	0.0041
Potassium	mg/l	na	na	6.2	5.5
Sodium	mg/l	na	na	32	34
Strontium	mg/l	na	na	1.4	1.4
Arsenic	mg/l	0.1	0.01	0.0035	0.0024
Barium	mg/l	1	2	0.11	0.073
Boron	mg/l	0.75	na	0.076	0.071
Copper	mg/l	1	1.3		
Zinc	mg/l	10	5	0.01	
Calcium	mg/l	na	na	170	180
Methylene chloride	ug/l	100	5		
Bromoform	ug/l	na	na		
Bromodichloromethane	ug/l	na	na		
Dichlorodifluoromethane	ug/l	na	na		
Silica	mg/l	na	na	31	29
Nitrogen, Total	mg/l	na	na	11	9.1
Selenium	mg/l	50	50	0.015	0.01
2-Butanone (MEK)	ug/l	na	na		
Trichloroethene	ug/l	100	5		
Naphthalene	ug/l	30	na		
CO3 / Carbonate	mg/l	na	na		
Field Specific Conductivity	us/cm	na	na	1160	1282
Field Dissolved Oxygen	mg/l	na	na	5.88	3.8
Field Eh Redox potential	mv	na	na	44.9	69.1
Field pH	pH	bet 6 & 9	na	7.37	7.47
Field Temperature C	C	na	na	29.2	37.08
Field Turbidity	NTU	na	na	1.63	0.33
Bicarbonate / HCO3	mg/l	na	na		
pH	pH	bet 6 & 9	na	7.78	7.68
Total Dissolved Solids	mg/l	1000	500	779	883

Figures




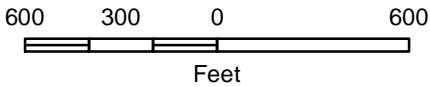
 Monitoring Wells

Figure 1
 Site Location and
 Monitoring Well Locations
 Nazareth Coronado Landfill
 City of Albuquerque



Source: COA EQulS Database



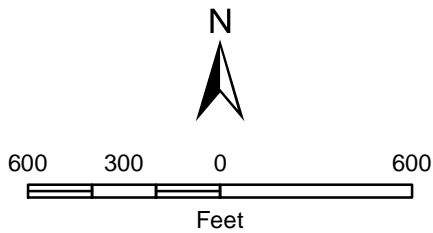
Q2 1998 GW Contours (ft)

- 4965 - 4967
- 4962 - 4964
- 4960 - 4961
- 4957 - 4959
- 4953 - 4956



Source: COA EQUIS Database

Figure 2
 1998 Quarter 2
 Groundwater Elevation
 Nazareth Coronado Landfill
 City of Albuquerque

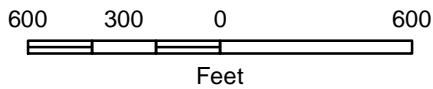


Q2 2000 GW Contours (ft)	
	4961 - 4967
	4956 - 4960
	4951 - 4955
	4946 - 4950
	4939 - 4945



Source: COA EQUIS Database

Figure 3
 2000 Quarter 2
 Groundwater Elevation
 Nazareth Coronado Landfill
 City of Albuquerque



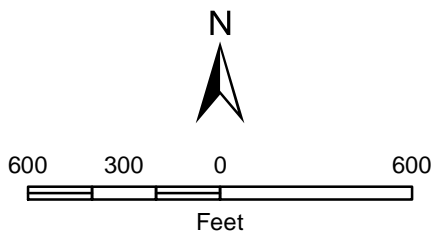
Q2 2002 GW Contours (ft)

- 4962 - 4964
- 4960 - 4961
- 4957 - 4959
- 4955 - 4956
- 4951 - 4954



Source: COA EQUIS Database

Figure 4
 2002 Quarter 2
 Groundwater Elevation
 Nazareth Coronado Landfill
 City of Albuquerque



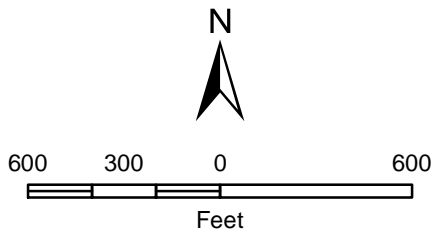
Q2 2004 GW Contours (ft)

- 4960 - 4965
- 4954 - 4959
- 4948 - 4953
- 4942 - 4947
- 4935 - 4941



Source: COA EQUIS Database

Figure 5
2004 Quarter 2
Groundwater Elevation
Nazareth Coronado Landfill
City of Albuquerque



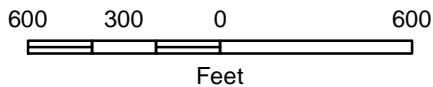
Q2 2008 GW Contours (ft)

—	4960 - 4965
—	4954 - 4959
—	4948 - 4953
—	4942 - 4947
—	4935 - 4941



Source: COA EQUIS Database

Figure 6
 2008 Quarter 2
 Groundwater Elevation
 Nazareth Coronado Landfill
 City of Albuquerque



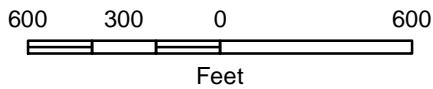
Q2 2010 GW Contours (ft)

- 4960 - 4965
- 4954 - 4959
- 4948 - 4953
- 4942 - 4947
- 4935 - 4941



Source: COA EQUIS Database

Figure 7
 2010 Quarter 2
 Groundwater Elevation
 Nazareth Coronado Landfill
 City of Albuquerque



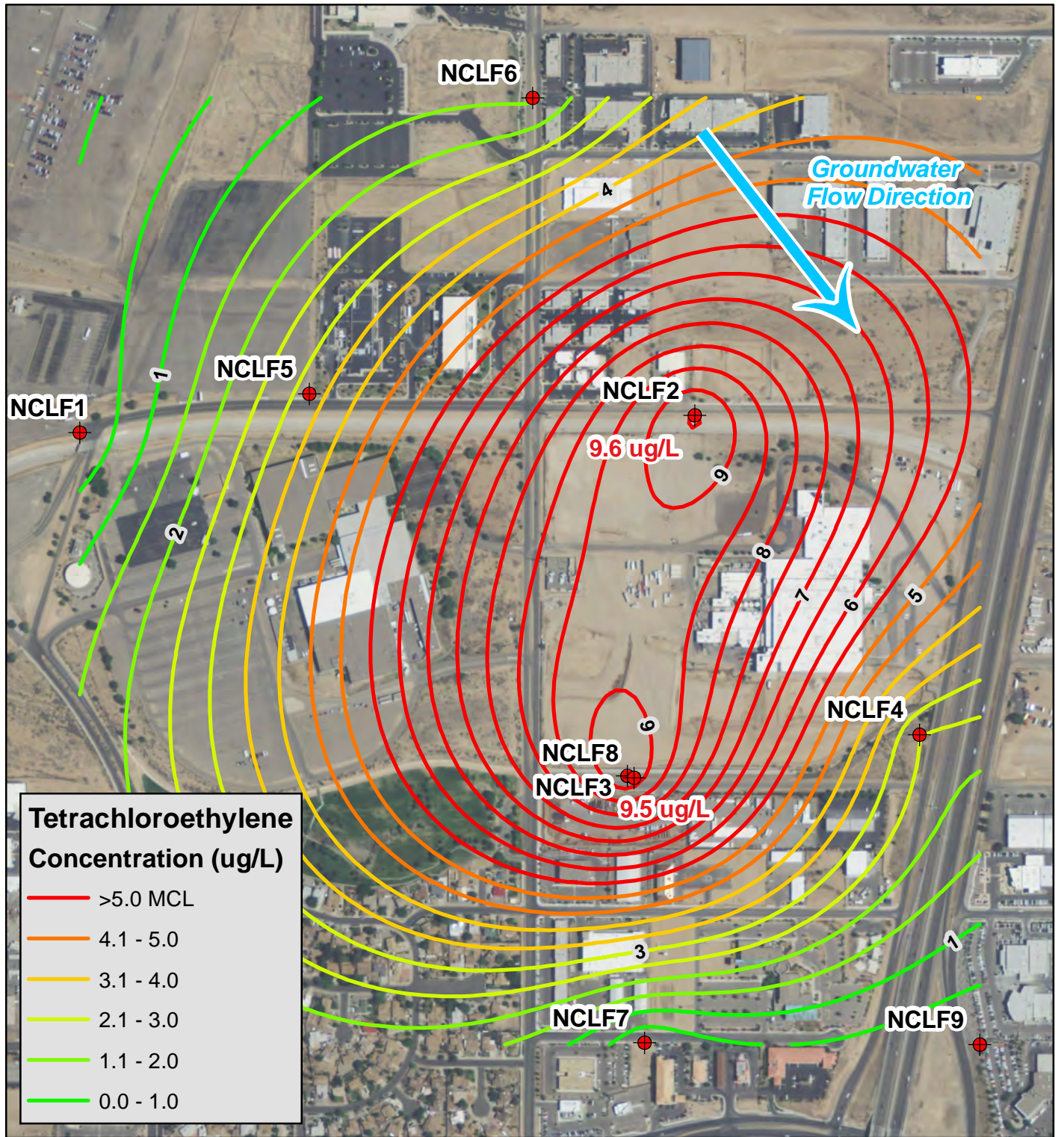
Q2 2012 GW Contours (ft)

- 4961 - 4965
- 4955 - 4960
- 4950 - 4954
- 4944 - 4949
- 4938 - 4943

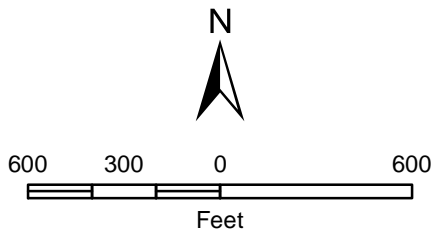


Source: COA EQUIS Database

Figure 8
 2012 Quarter 2
 Groundwater Elevation
 Nazareth Coronado Landfill
 City of Albuquerque

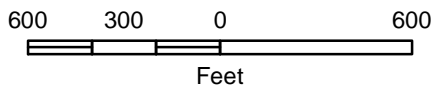
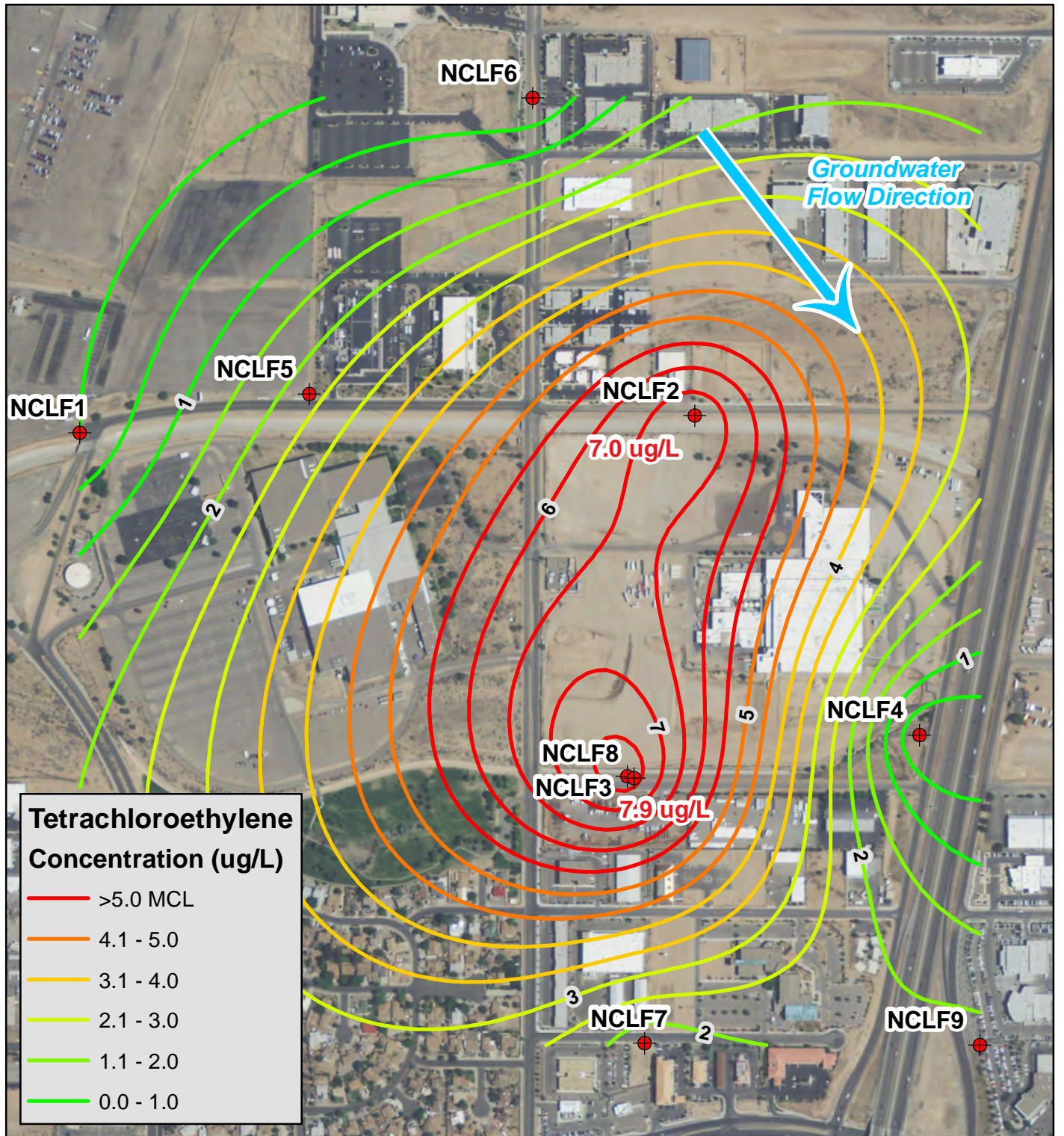


Monitoring Wells



INCERA
Source: COA EQulS Database

Figure 9
Tetrachloroethylene (PCE)
1998 Q02
Nazareth Coronado Landfill
City of Albuquerque

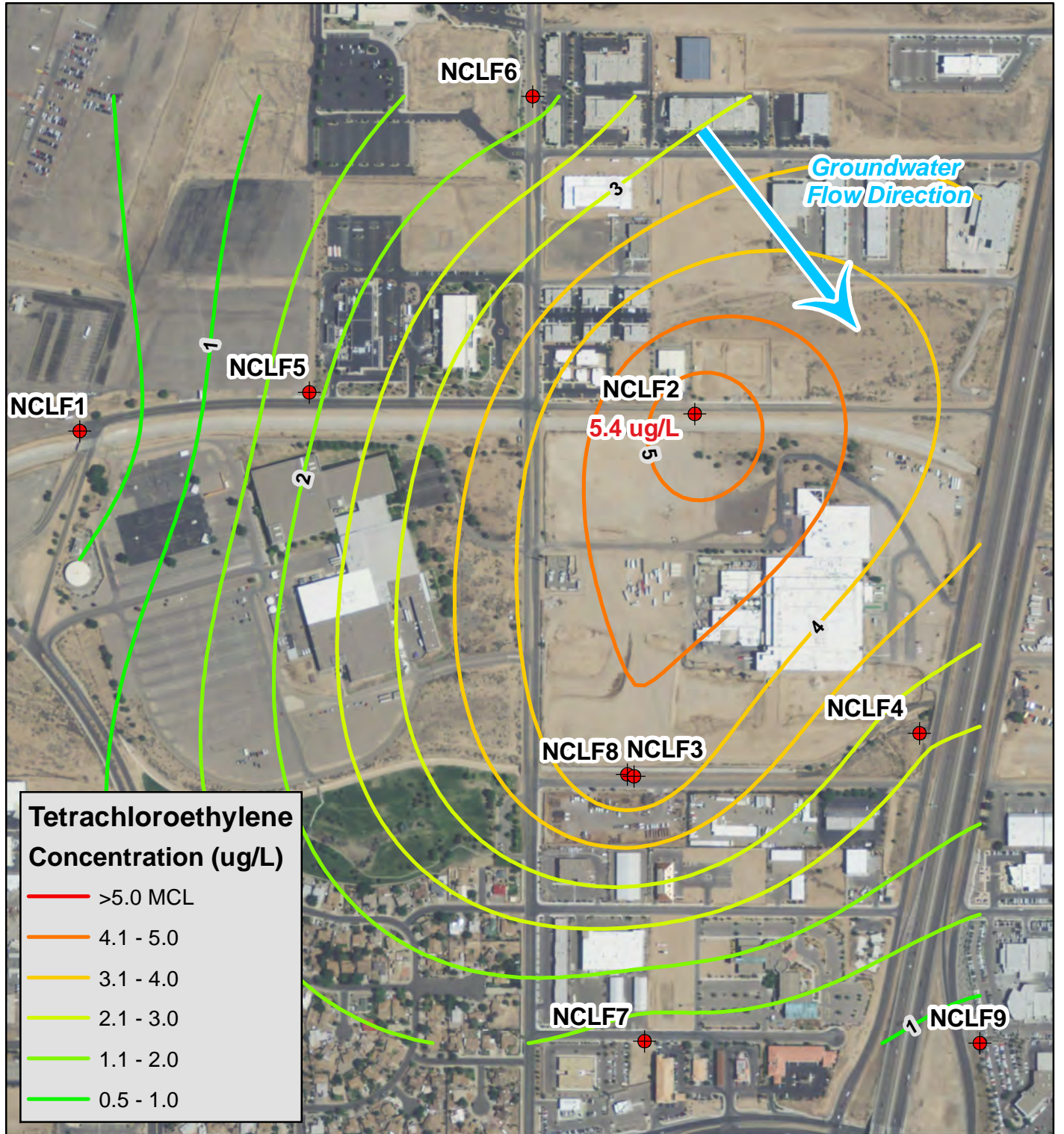


Monitoring Wells

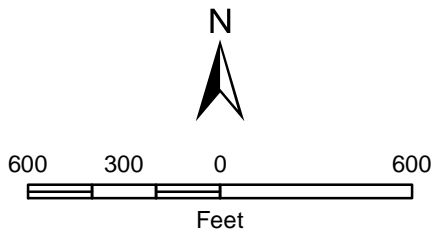


Source: COA EQulS Database

Figure 10
Tetrachloroethylene (PCE)
2000 Q02
Nazareth Coronado Landfill
City of Albuquerque

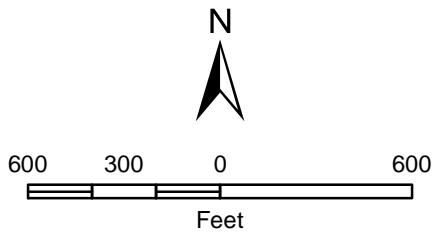
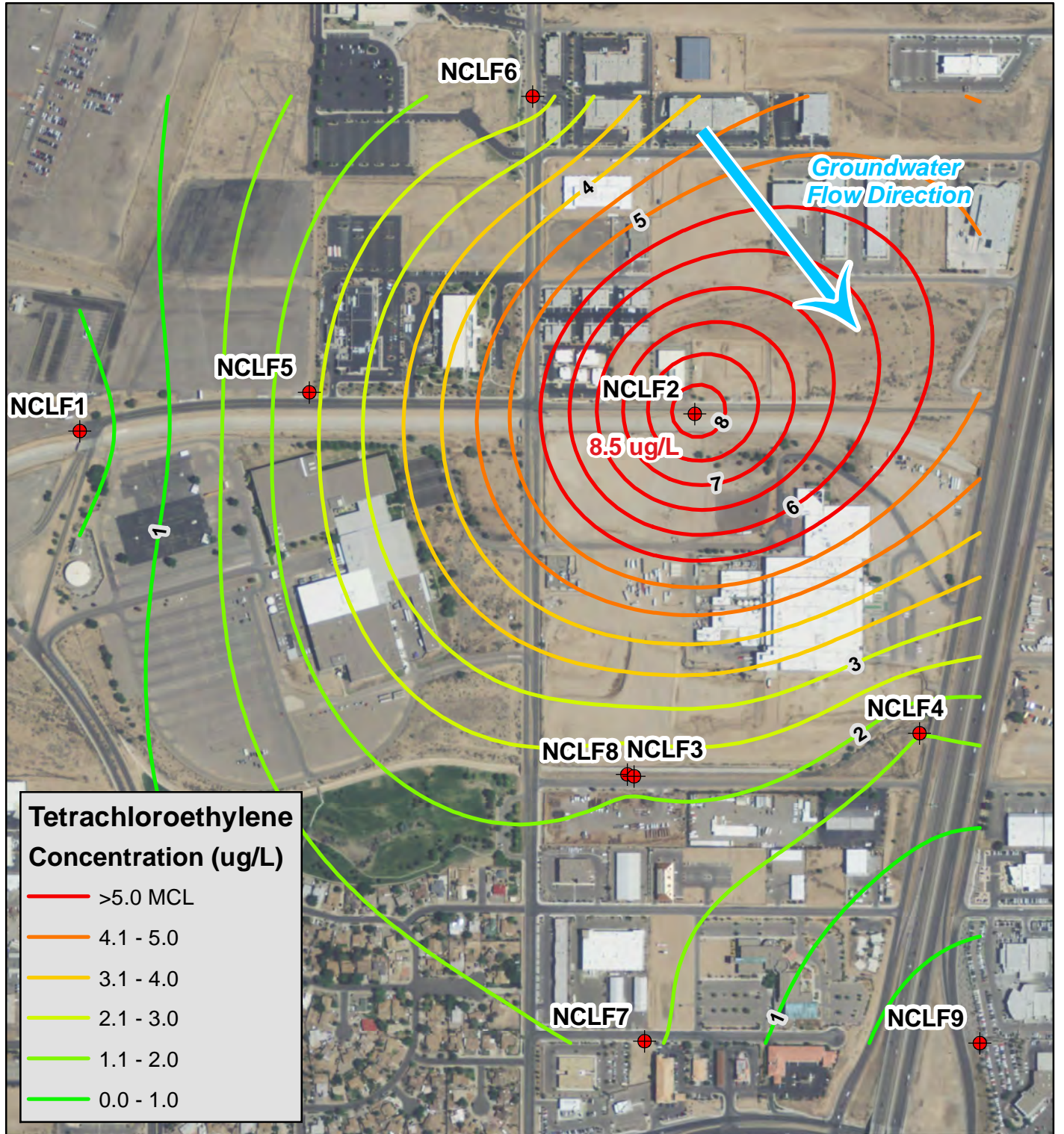


Monitoring Wells



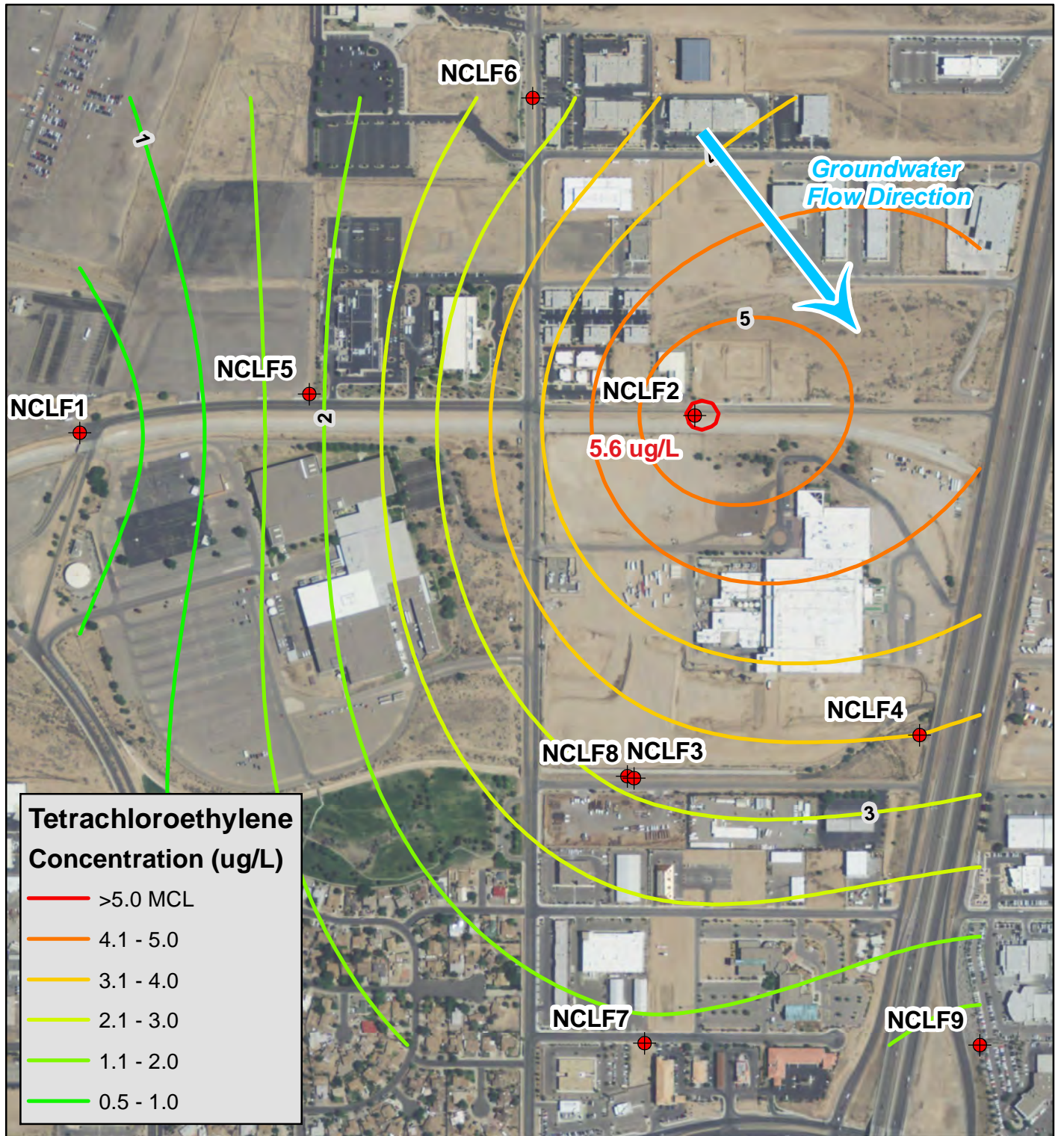
INCERA
Source: COA EQulS Database

Figure 11
Tetrachloroethylene (PCE)
2002 Q02
Nazareth Coronado Landfill
City of Albuquerque



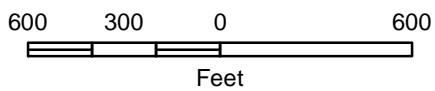
Source: COA EQulS Database

Figure 12
Tetrachloroethylene (PCE)
2004 Q02
Nazareth Coronado Landfill
City of Albuquerque



**Tetrachloroethylene
Concentration (ug/L)**

Red line	>5.0 MCL
Orange line	4.1 - 5.0
Yellow line	3.1 - 4.0
Light Green line	2.1 - 3.0
Medium Green line	1.1 - 2.0
Dark Green line	0.5 - 1.0

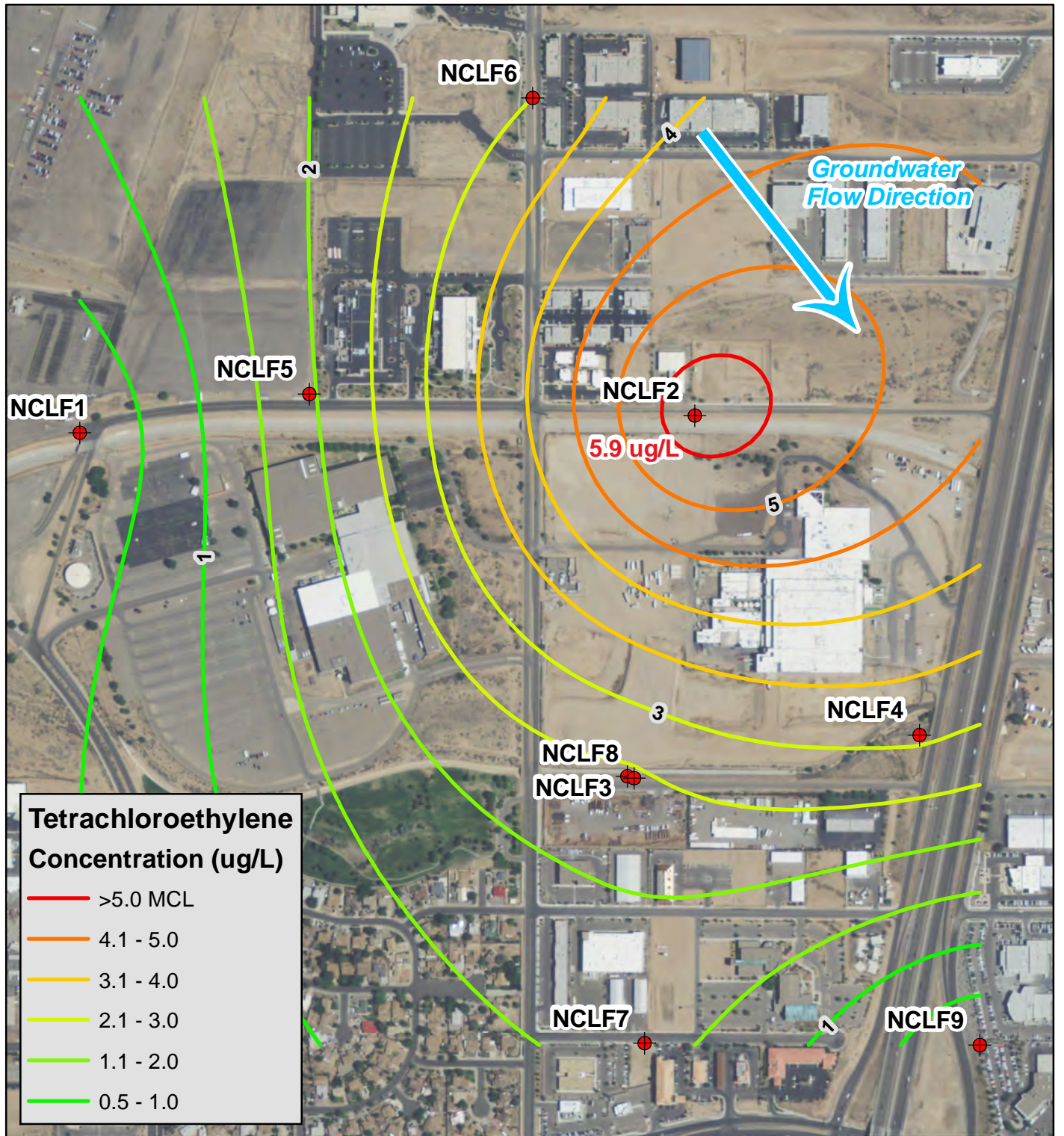


Monitoring Wells

Figure 13
Tetrachloroethylene (PCE)
2008 Q02
Nazareth Coronado Landfill
City of Albuquerque

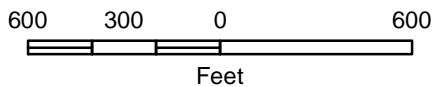


Source: COA EQulS Database



Tetrachloroethylene Concentration (ug/L)

Red line	>5.0 MCL
Orange line	4.1 - 5.0
Yellow line	3.1 - 4.0
Light Green line	2.1 - 3.0
Medium Green line	1.1 - 2.0
Dark Green line	0.5 - 1.0




 Monitoring Wells

Figure 14
 Tetrachloroethylene (PCE)
 2010 Q02
 Nazareth Coronado Landfill
 City of Albuquerque



Source: COA EQulS Database

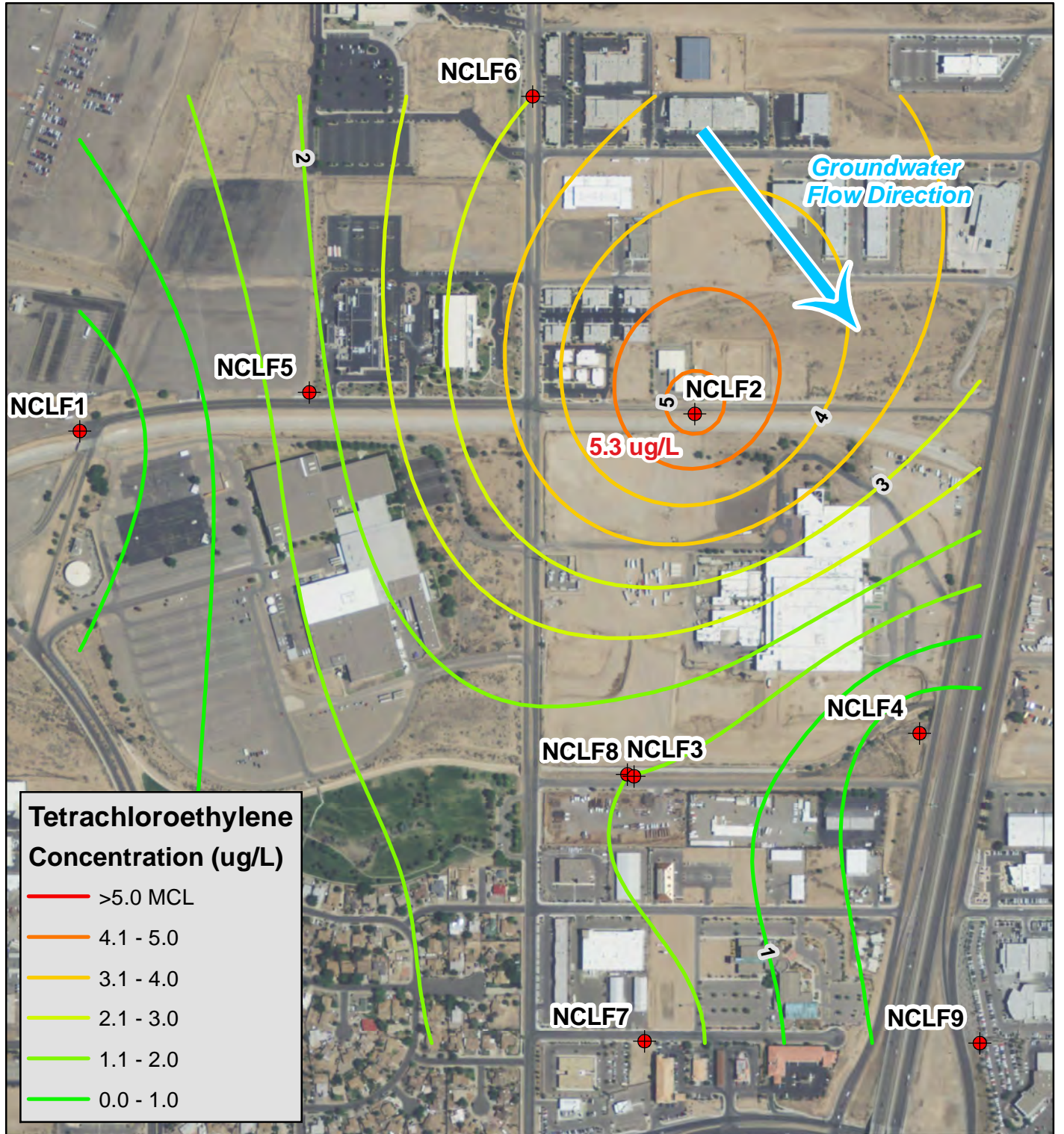


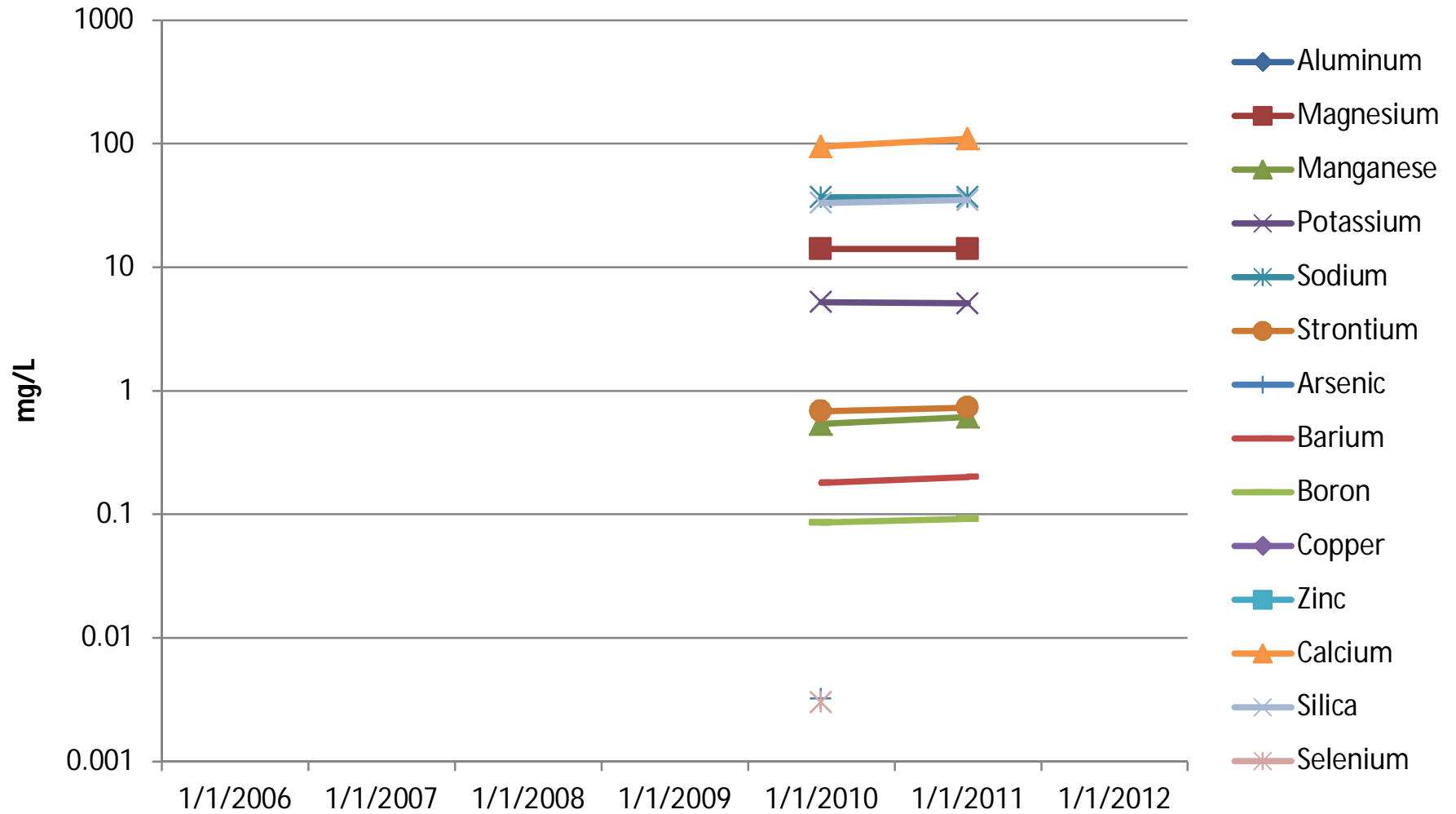
Figure 15
 Tetrachloroethylene (PCE)
 2012 Q02
 Nazareth Coronado Landfill
 City of Albuquerque



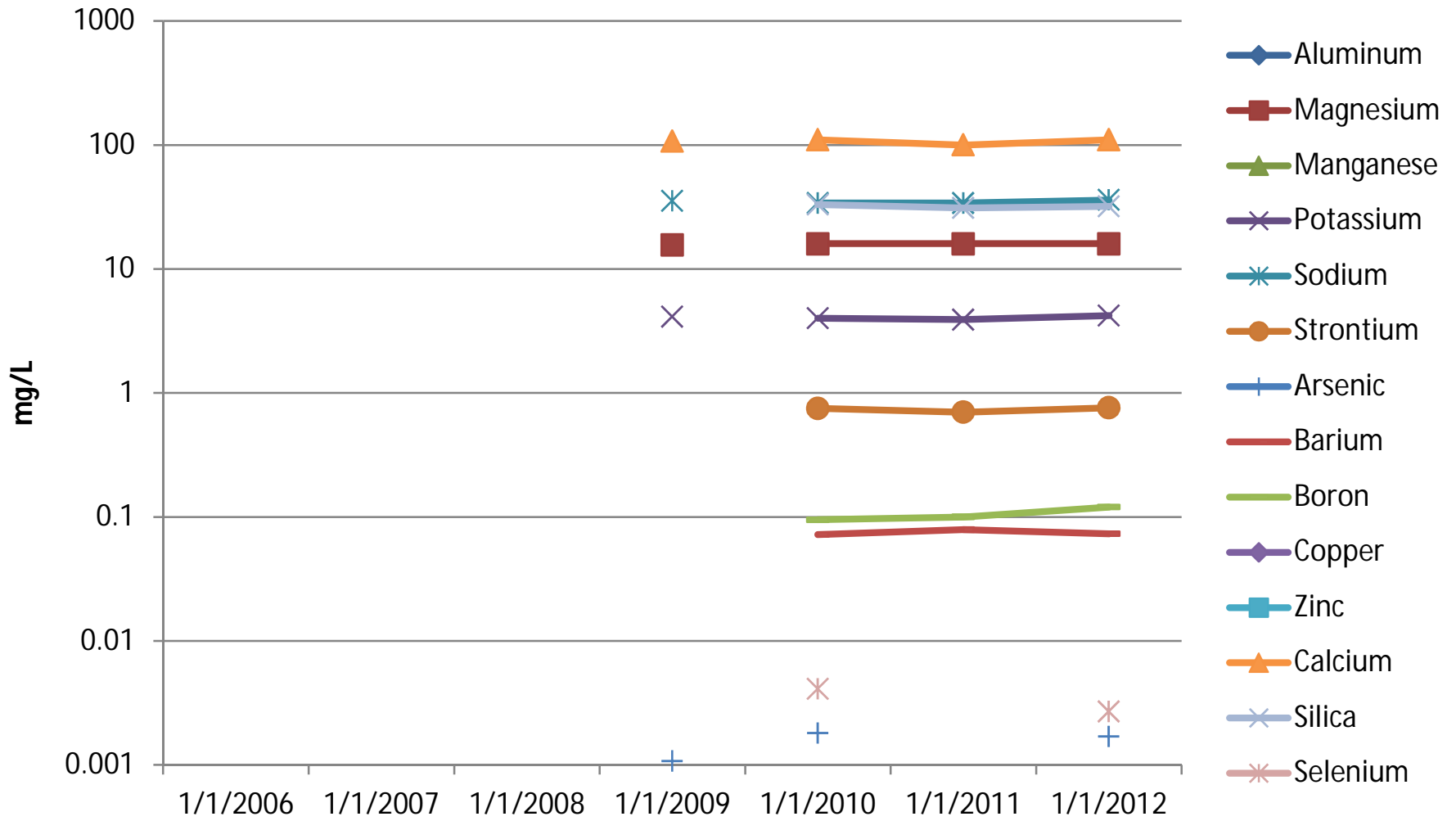
Source: COA EQulS Database

Graphs

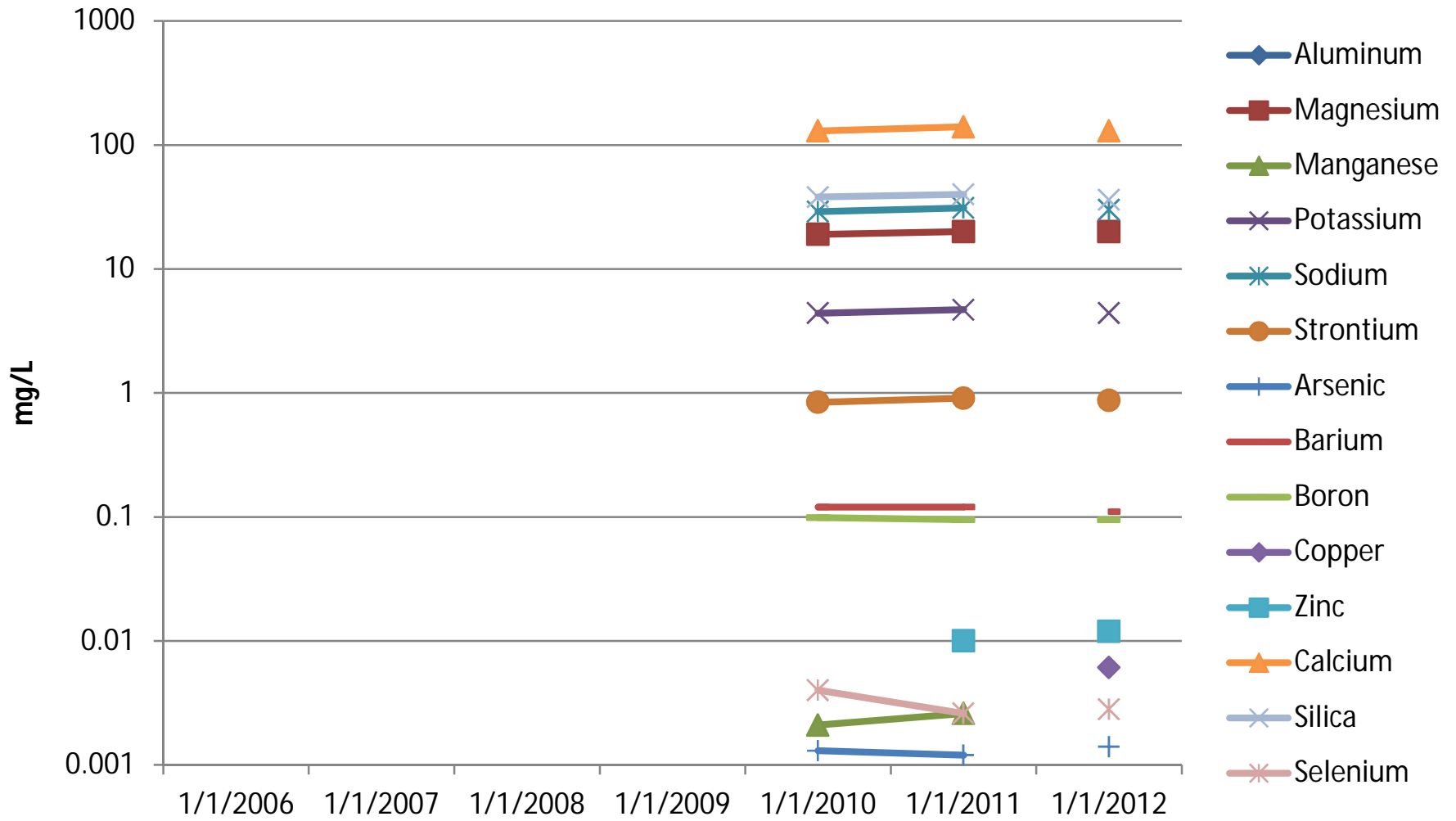
NCLF1: Metals



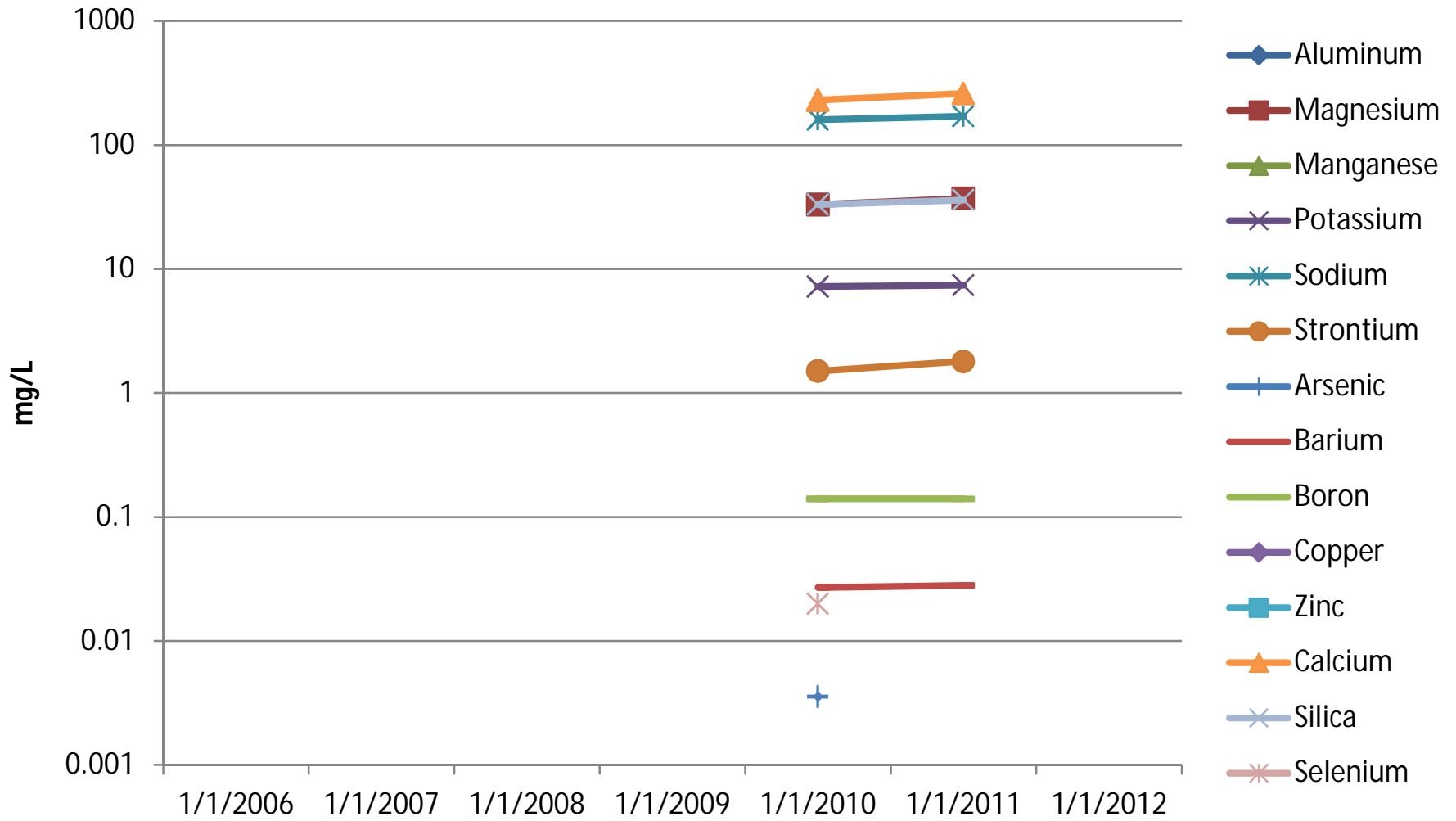
NCLF2: Metals



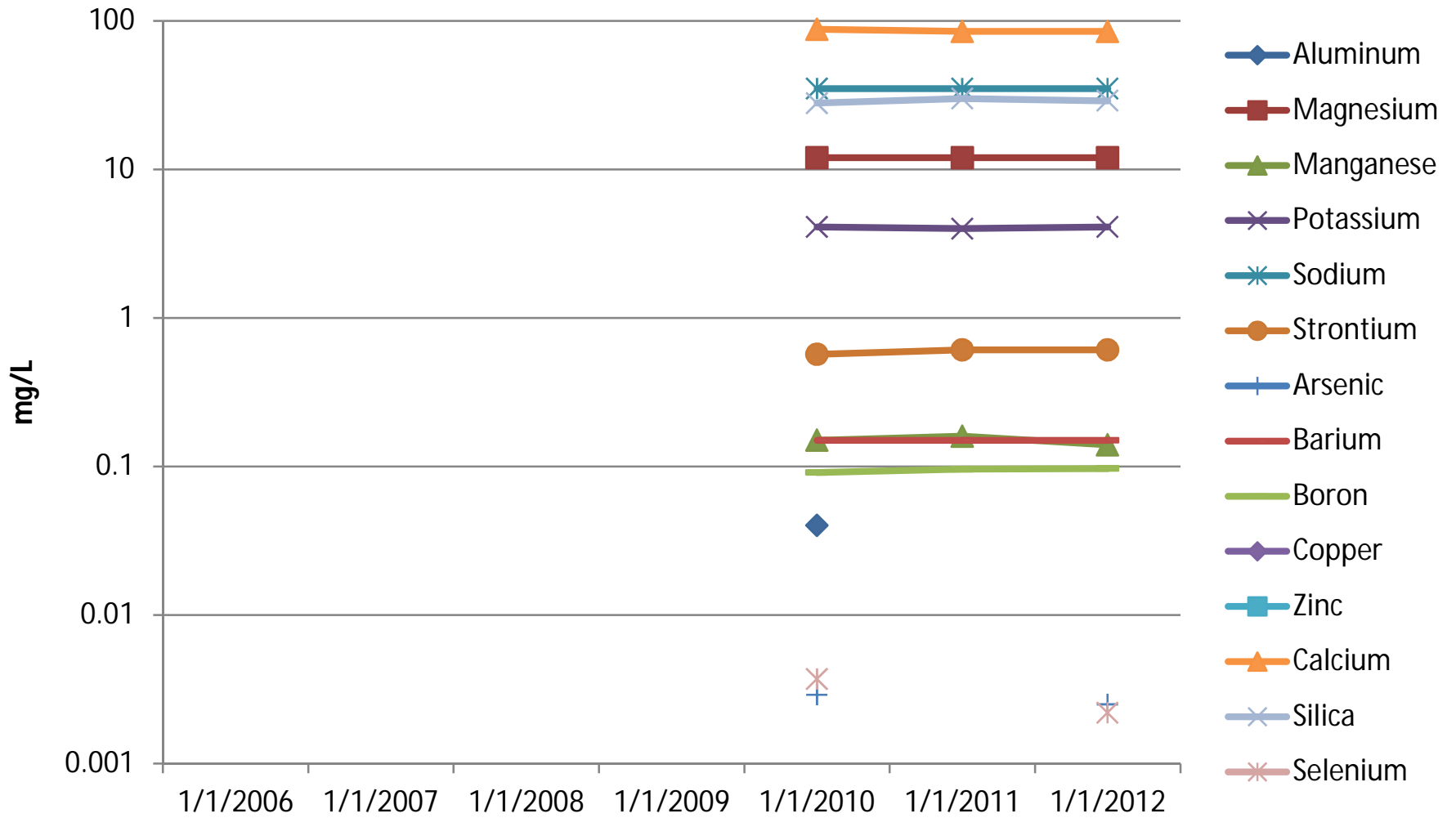
NCLF3: Metals



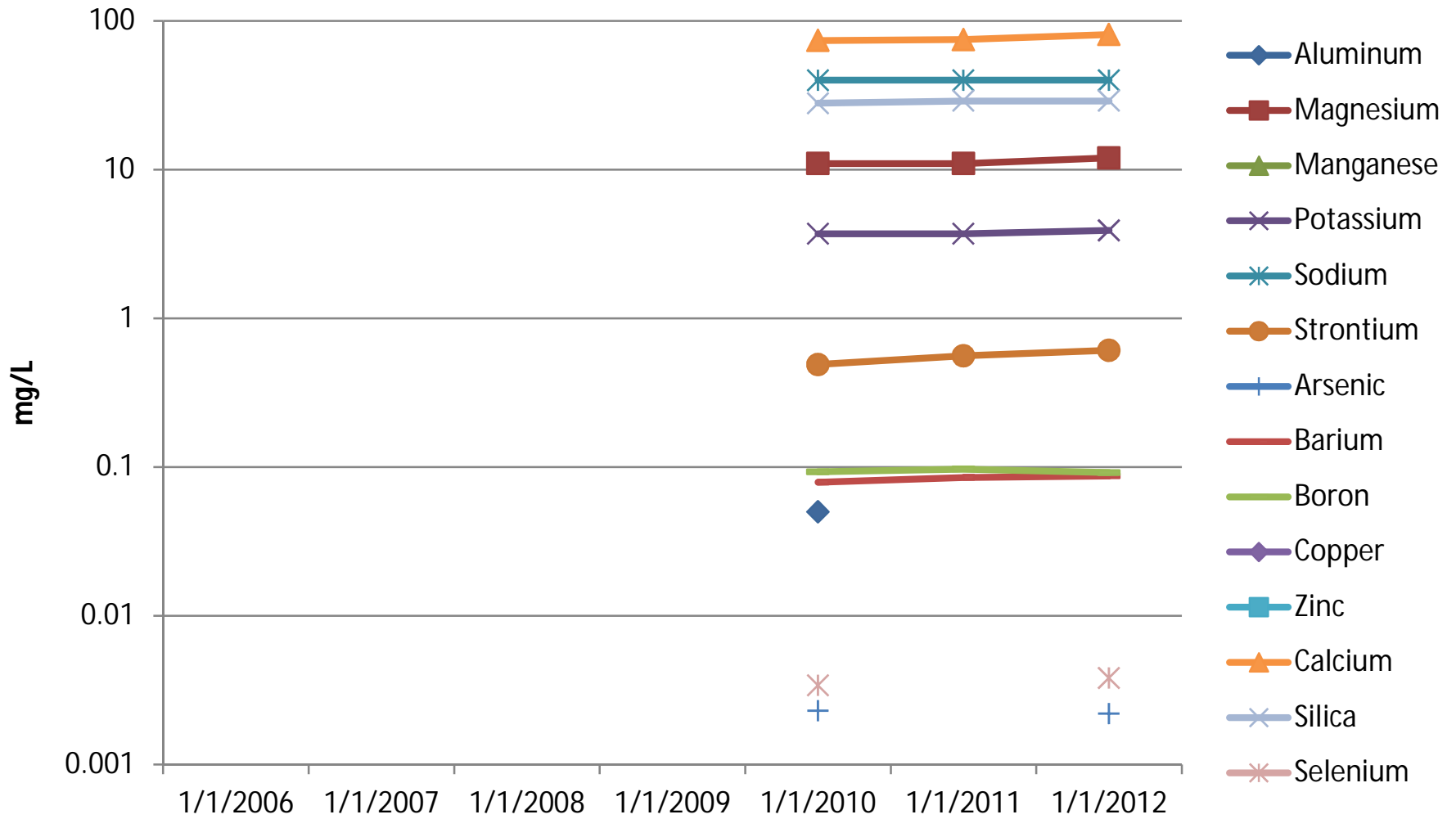
NCLF4: Metals



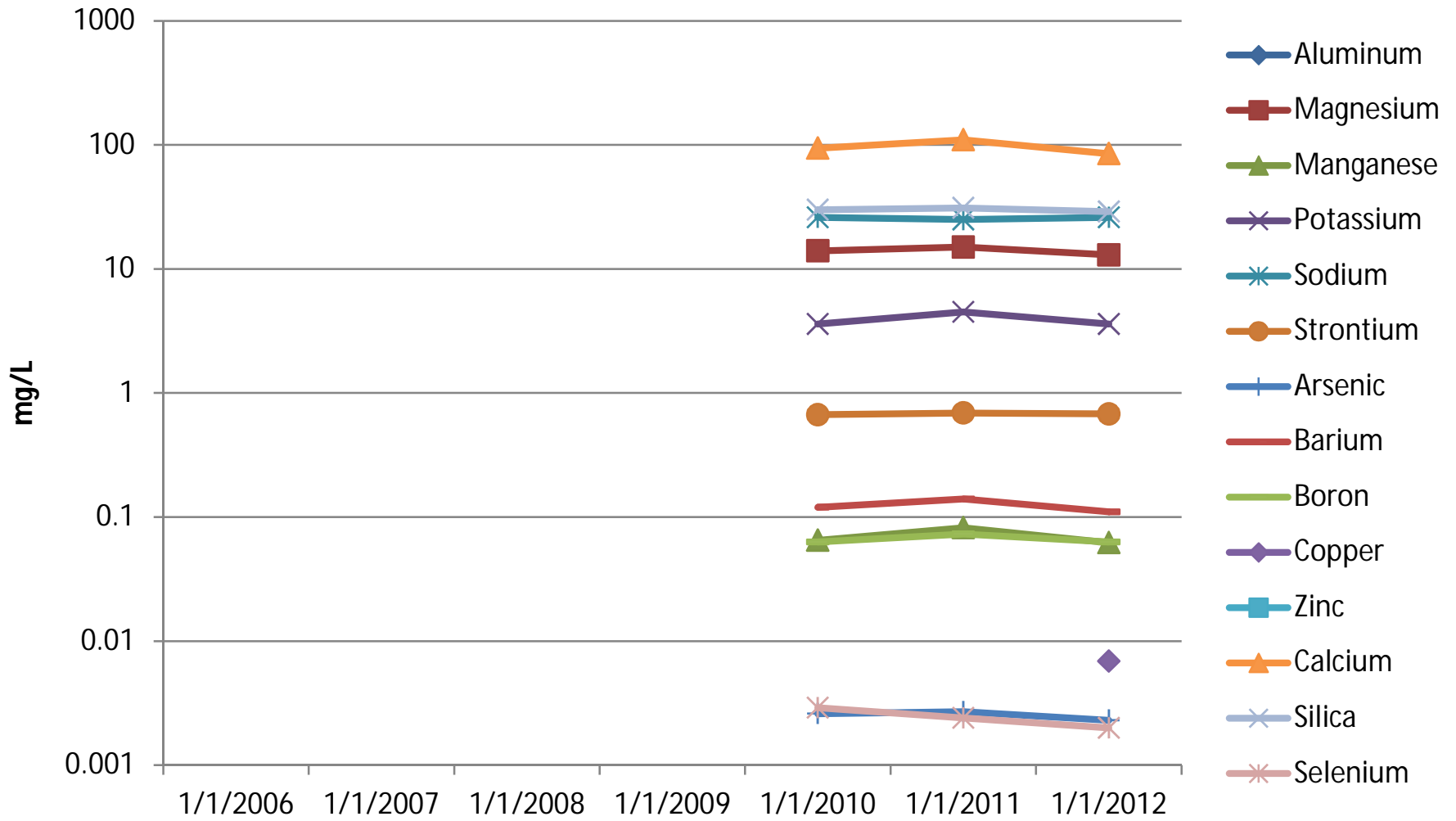
NCLF5: Metals



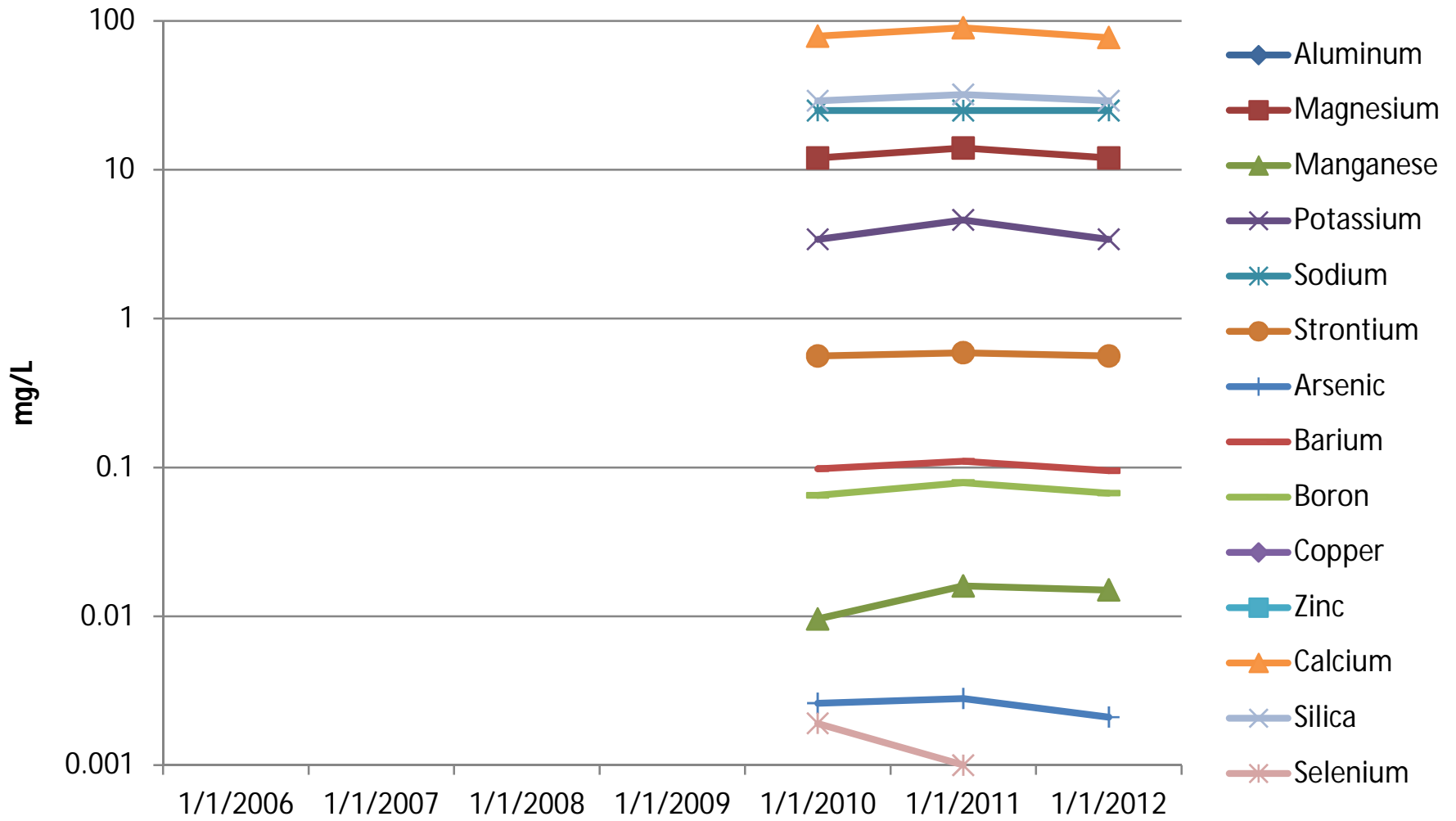
NCLF6: Metals



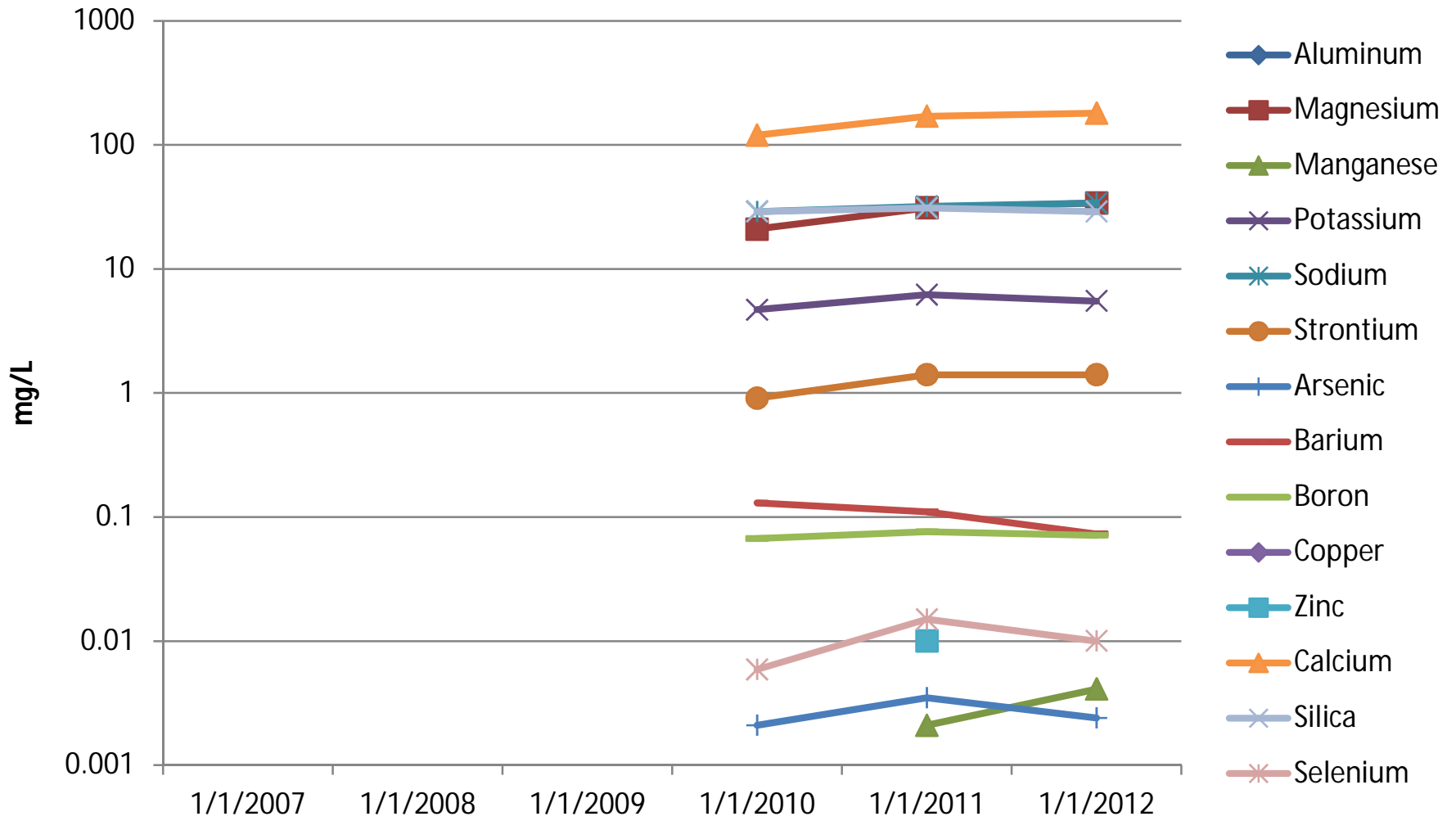
NCLF7: Metals



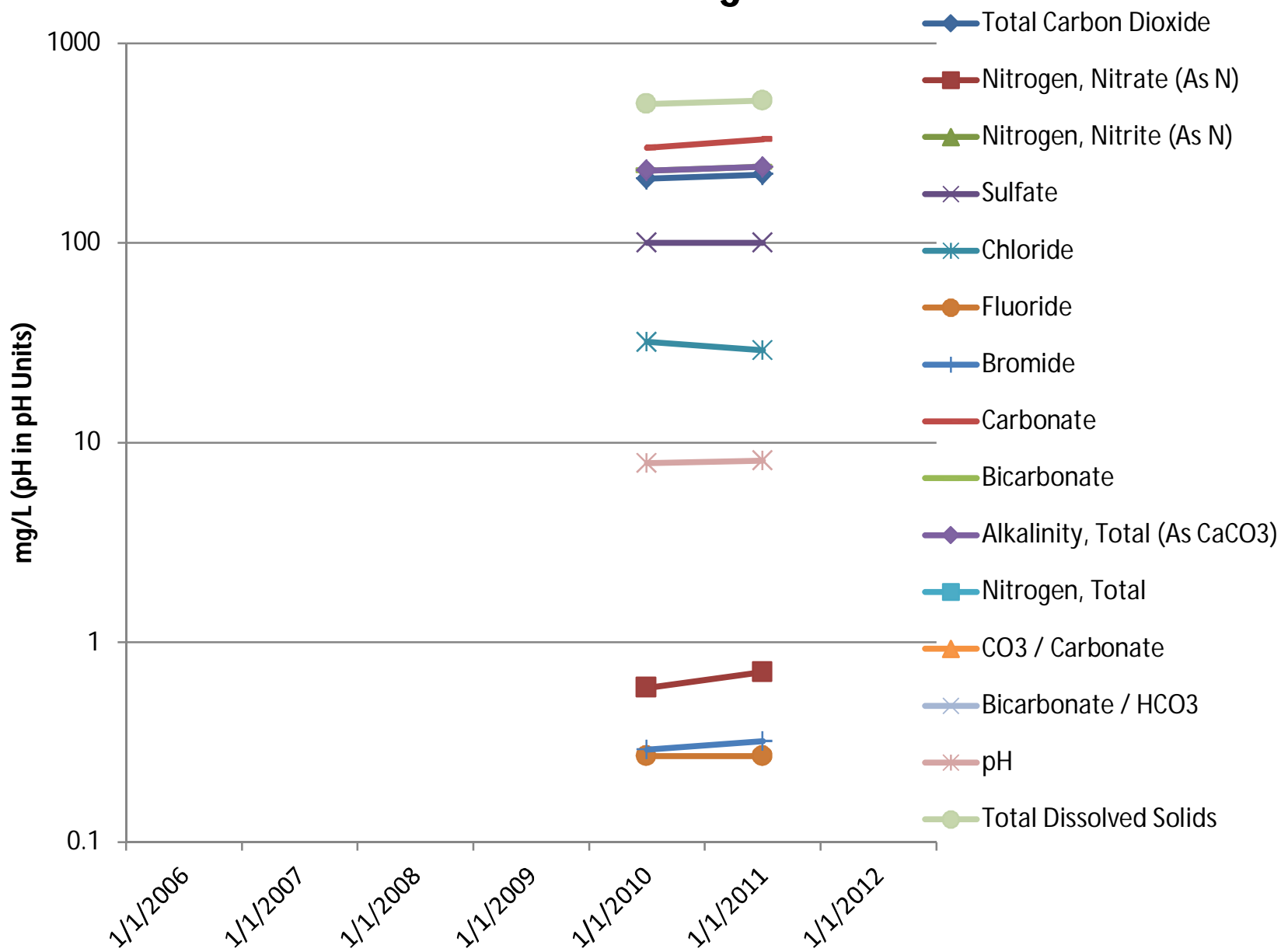
NCLF8: Metals



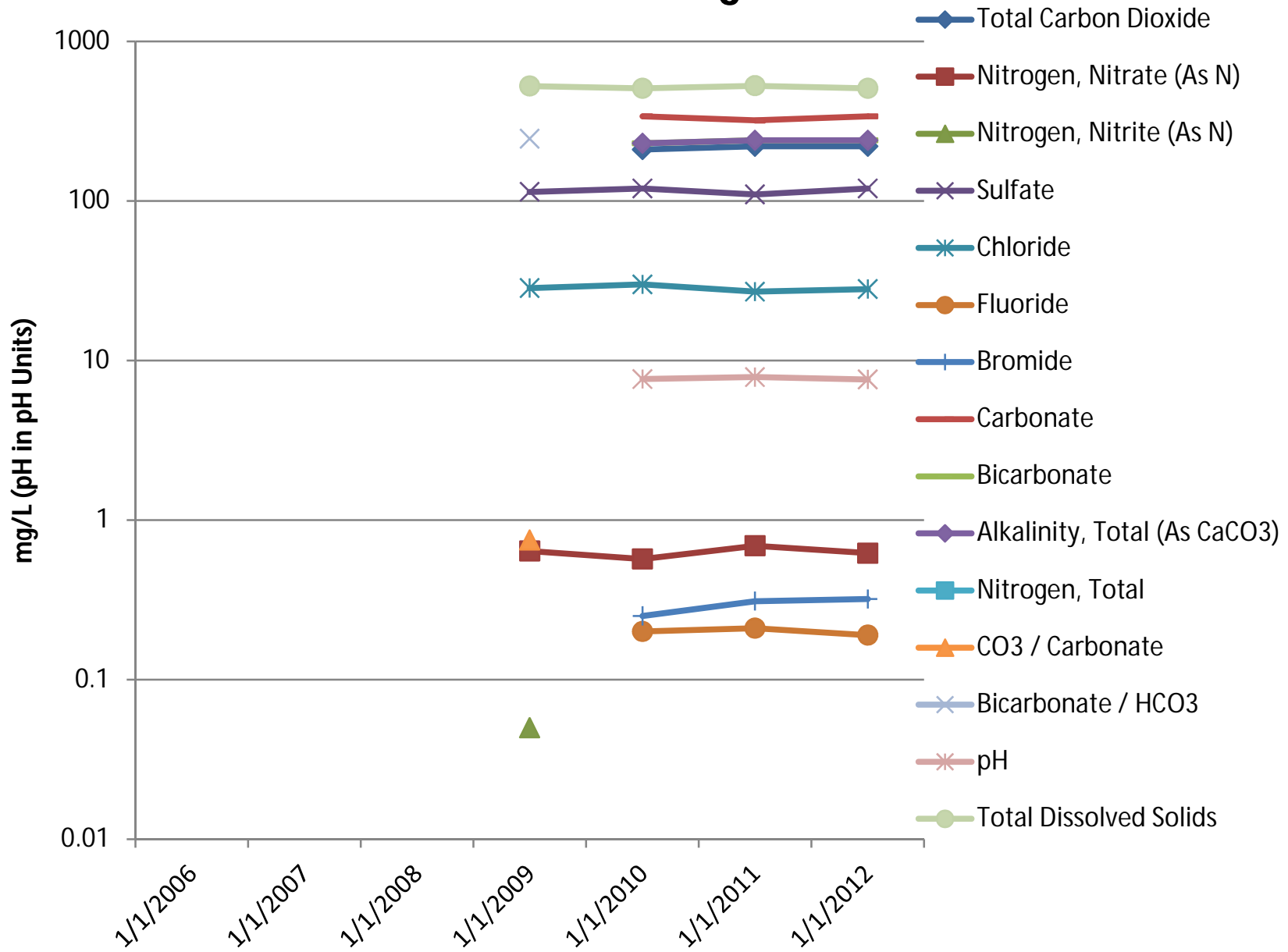
NCLF9: Metals



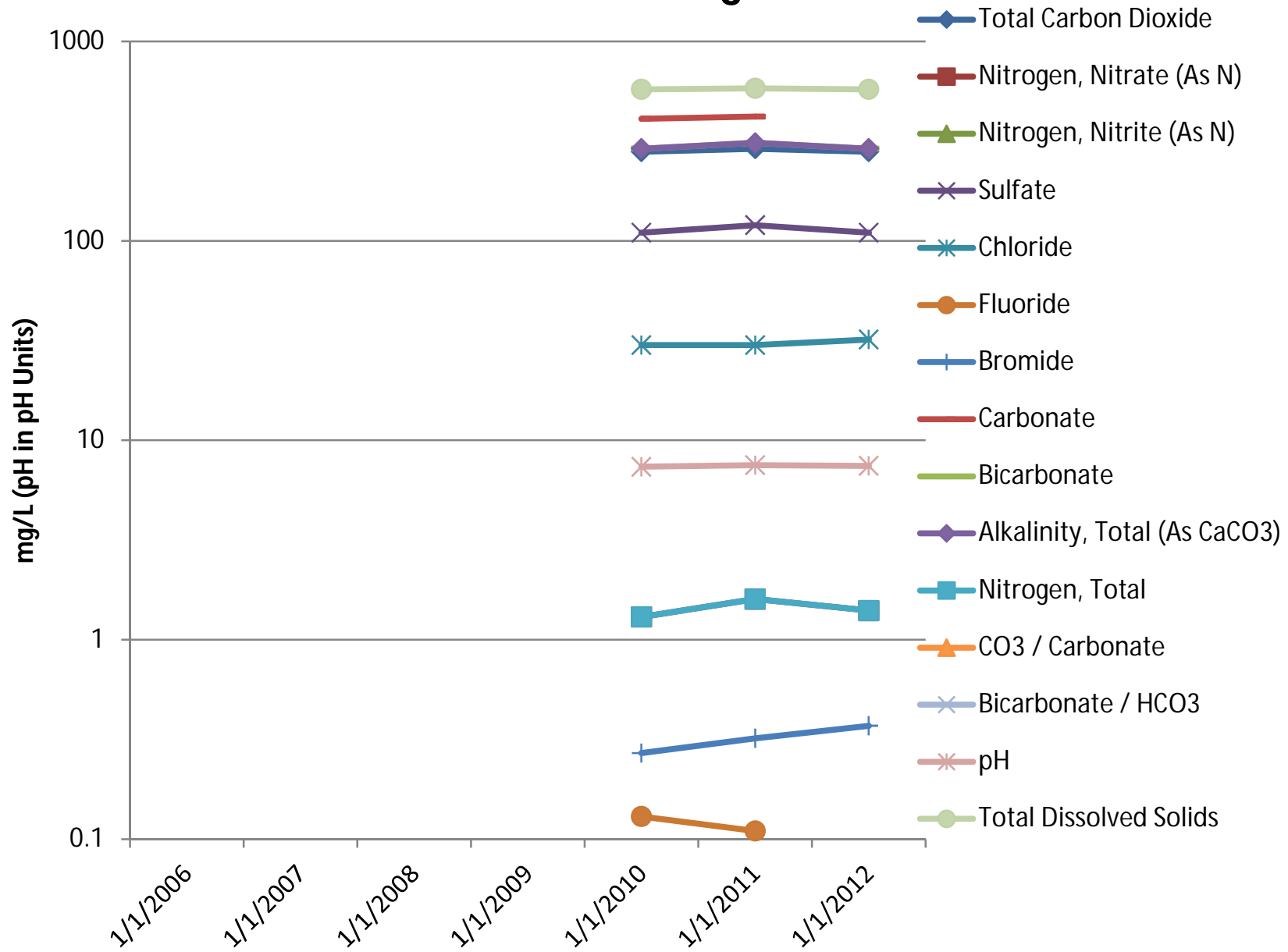
NCLF1: Inorganics



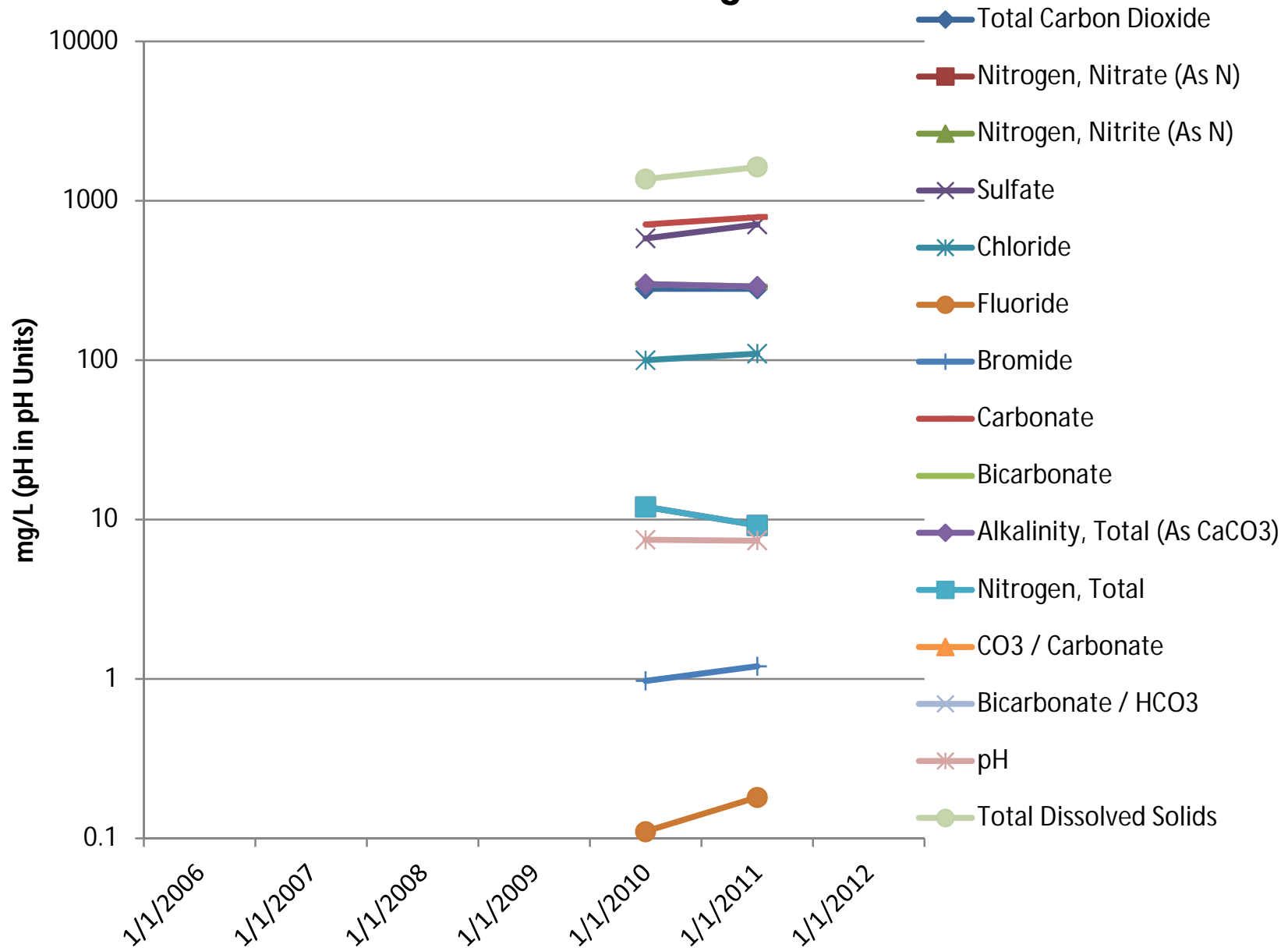
NCLF2: Inorganics



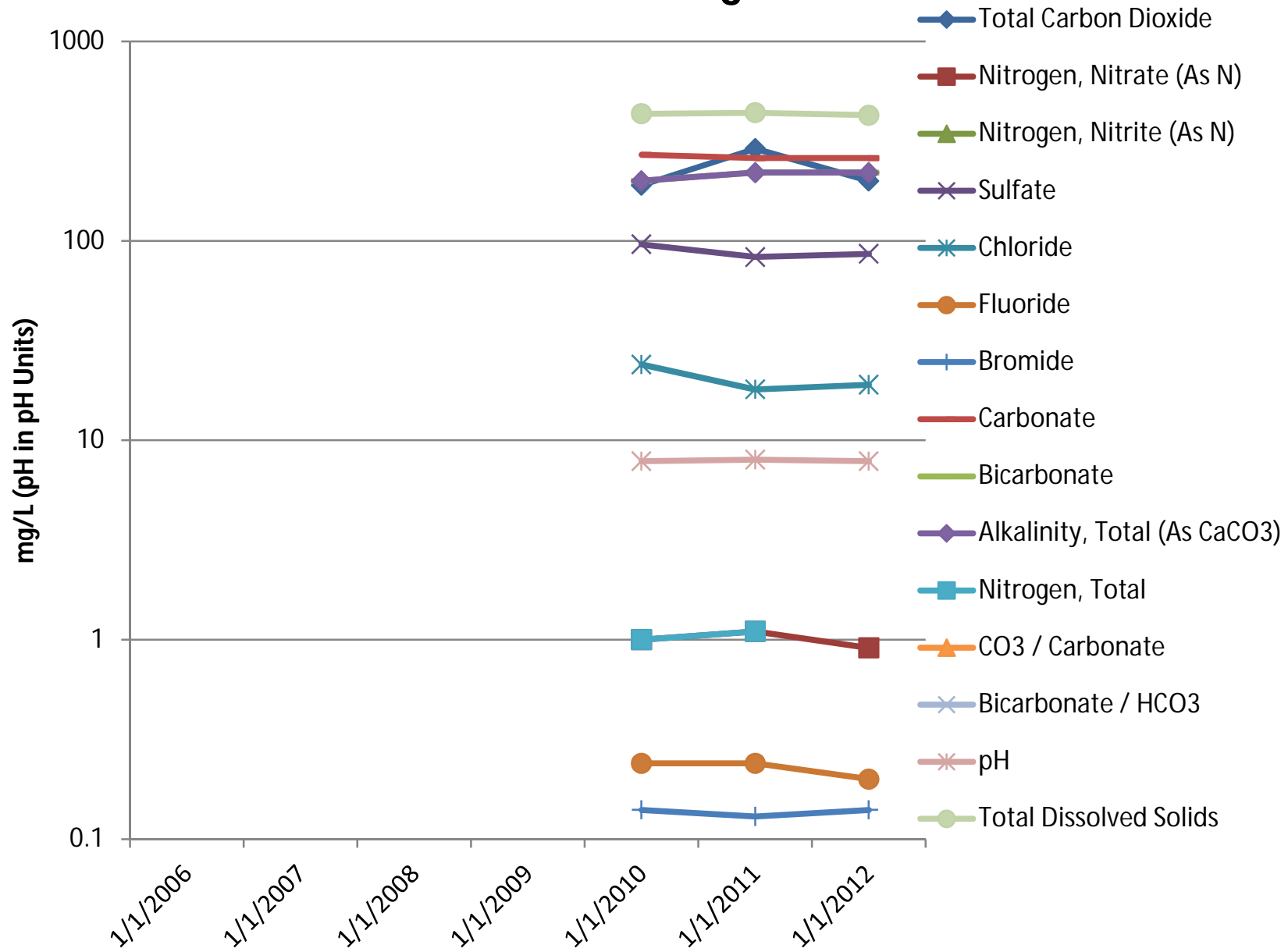
NCLF3: Inorganics



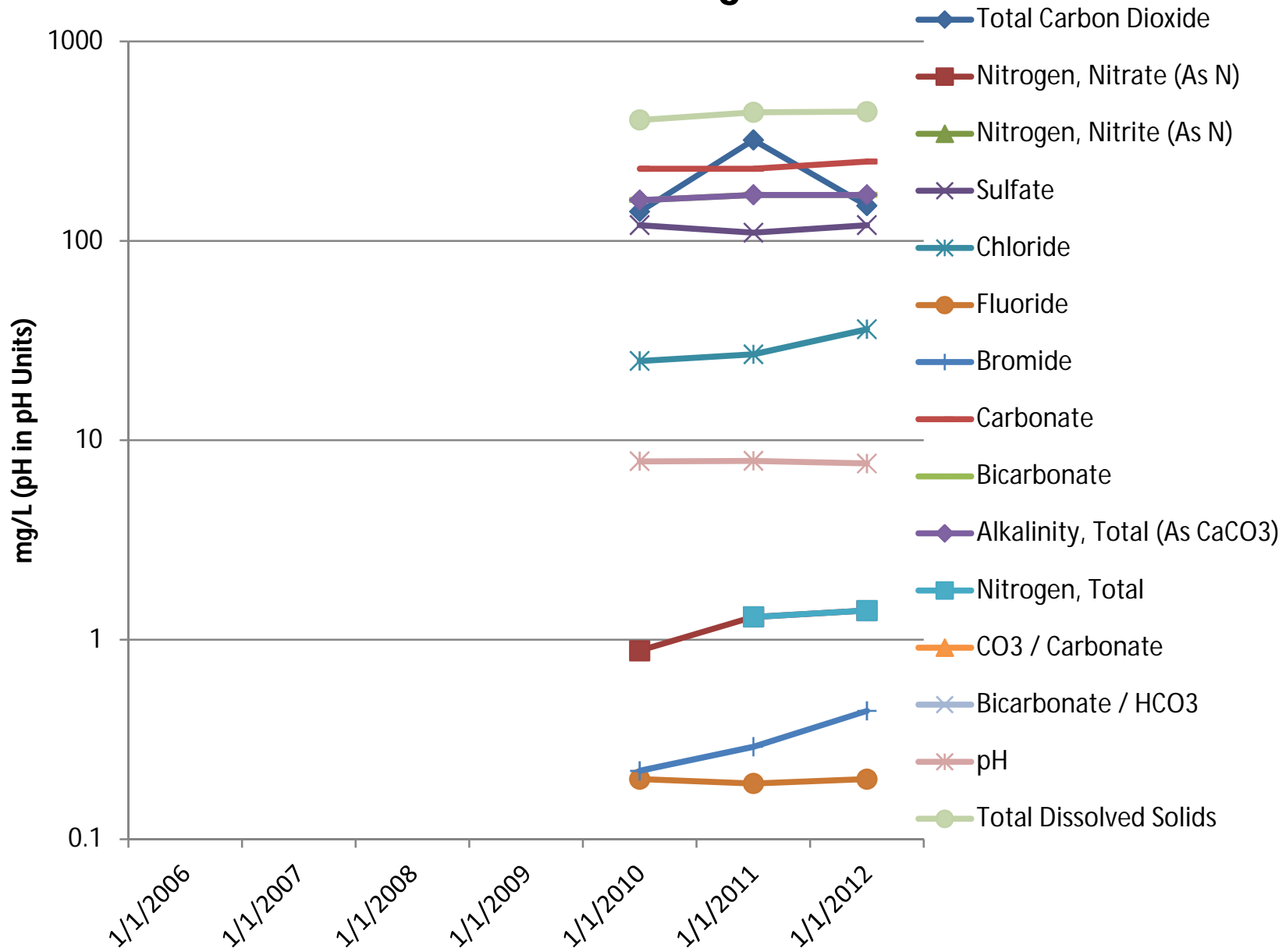
NCLF4: Inorganics



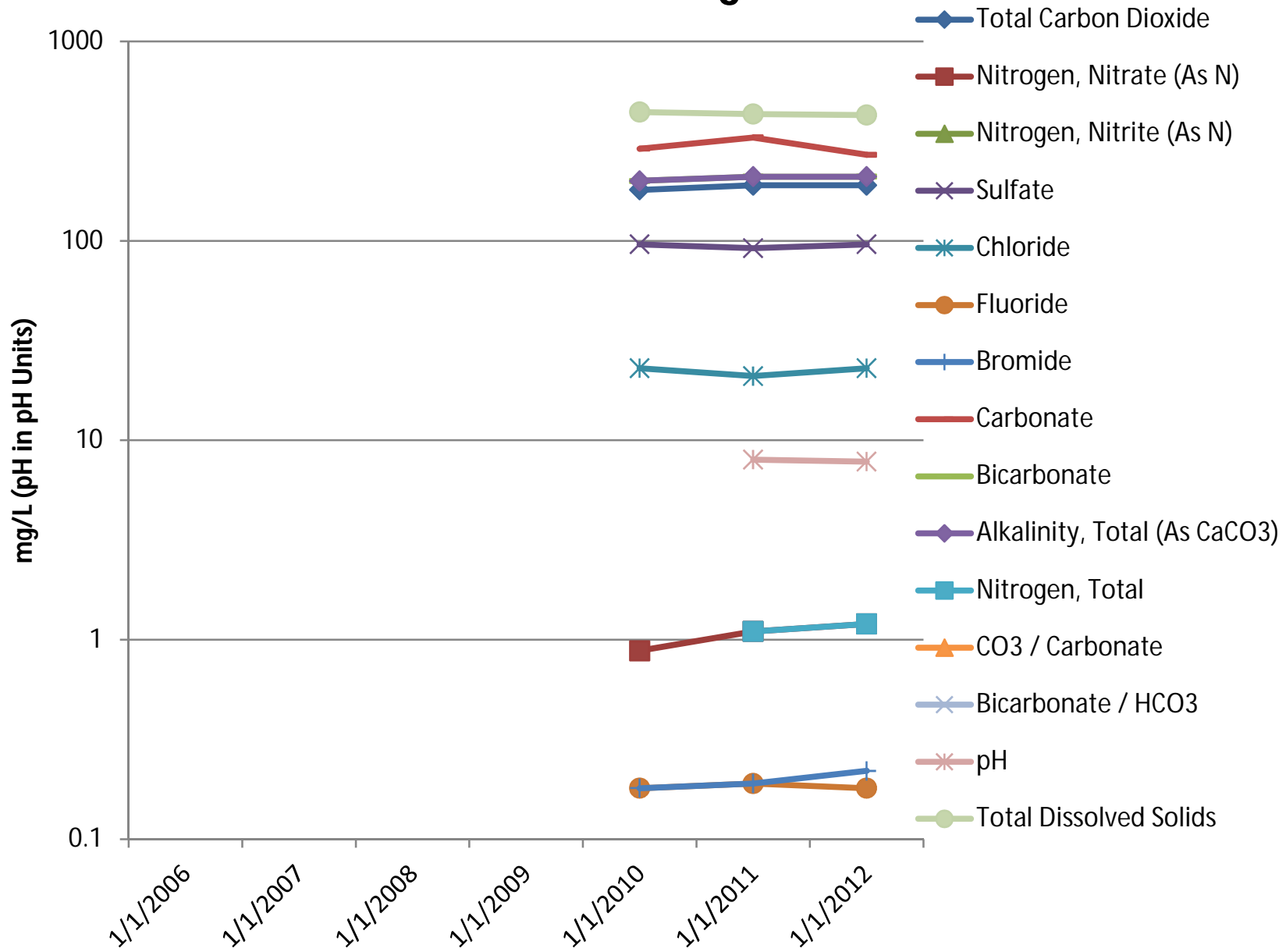
NCLF5: Inorganics



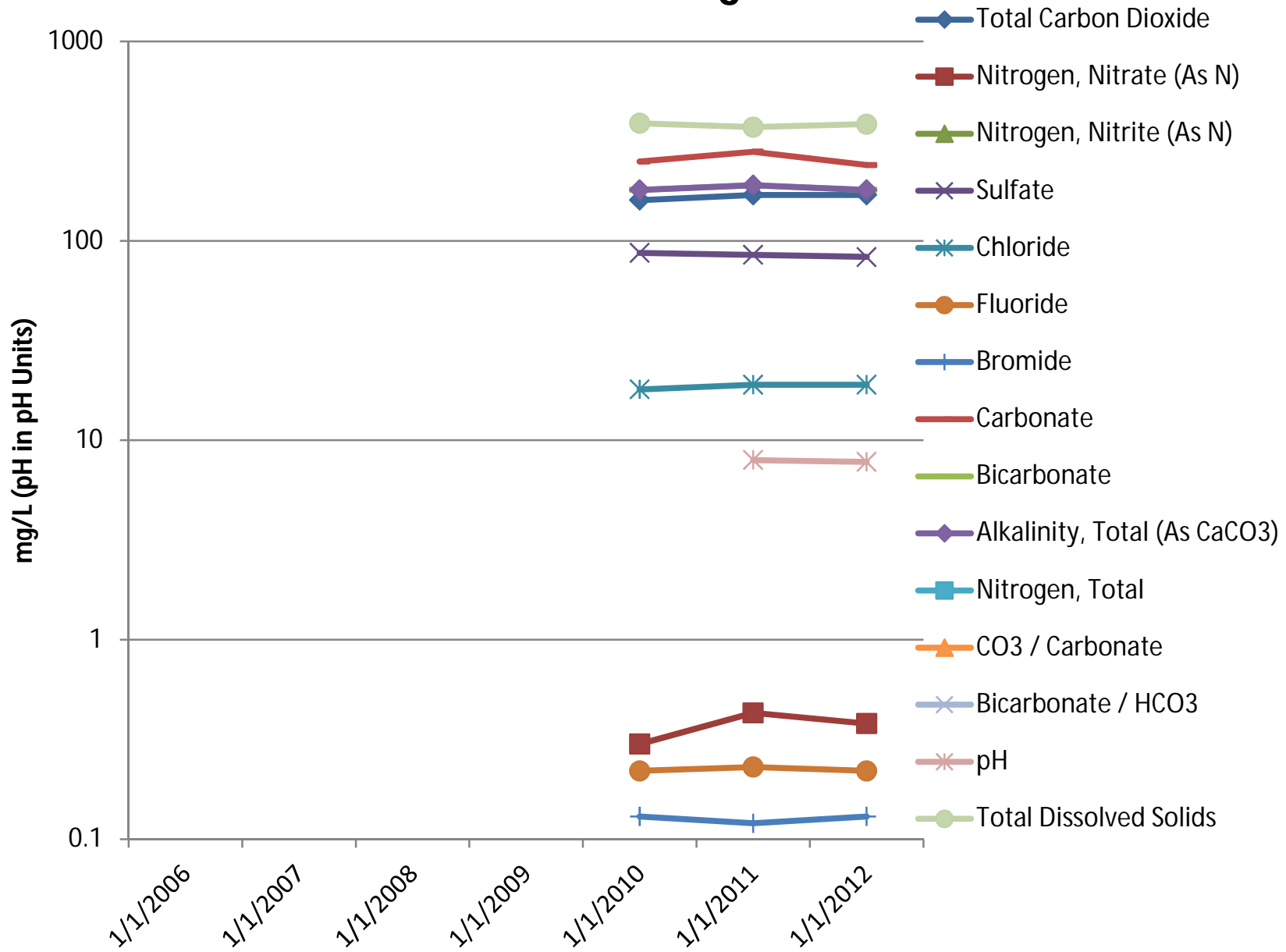
NCLF6: Inorganics



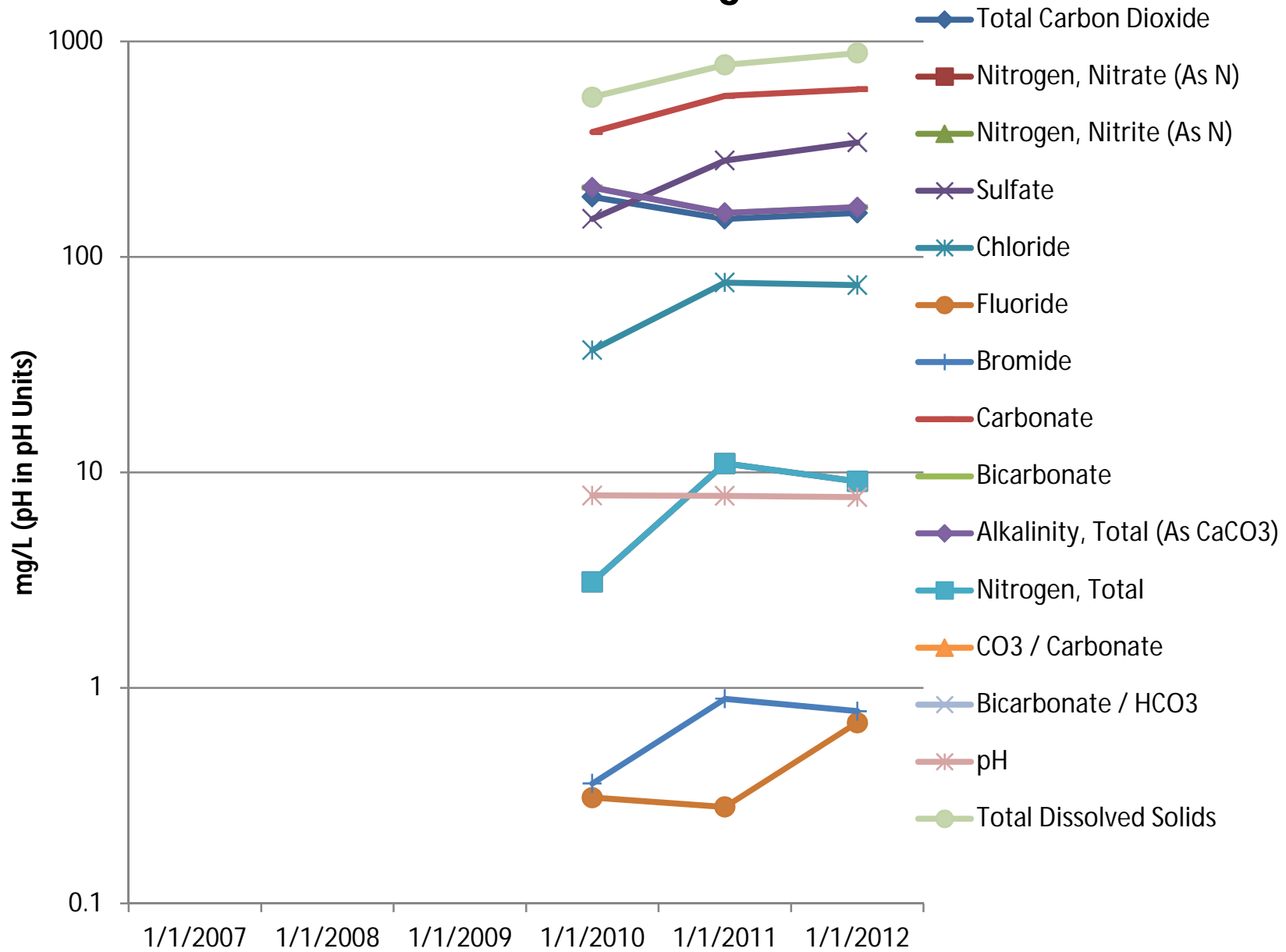
NCLF7: Inorganics



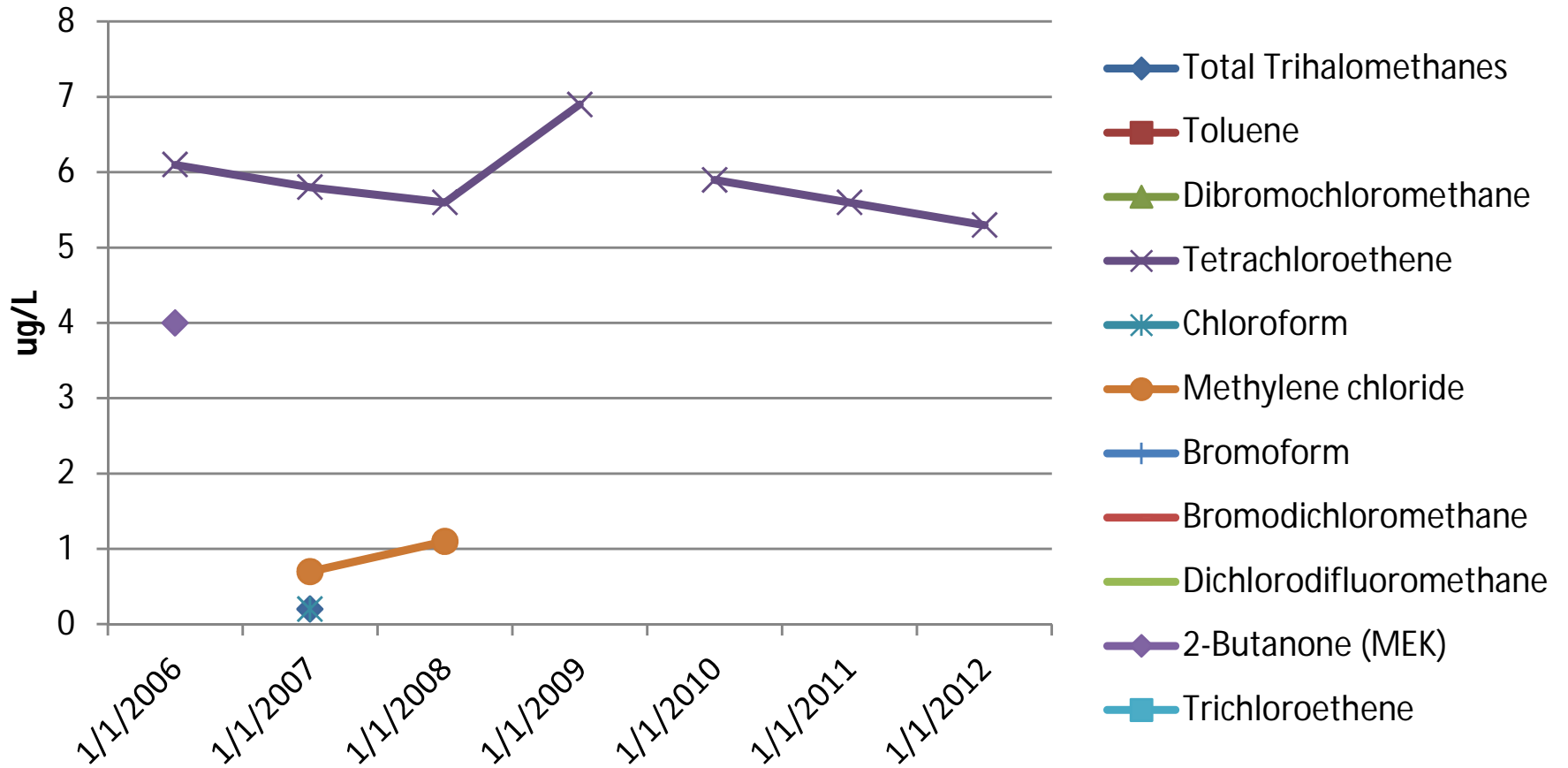
NCLF8: Inorganics



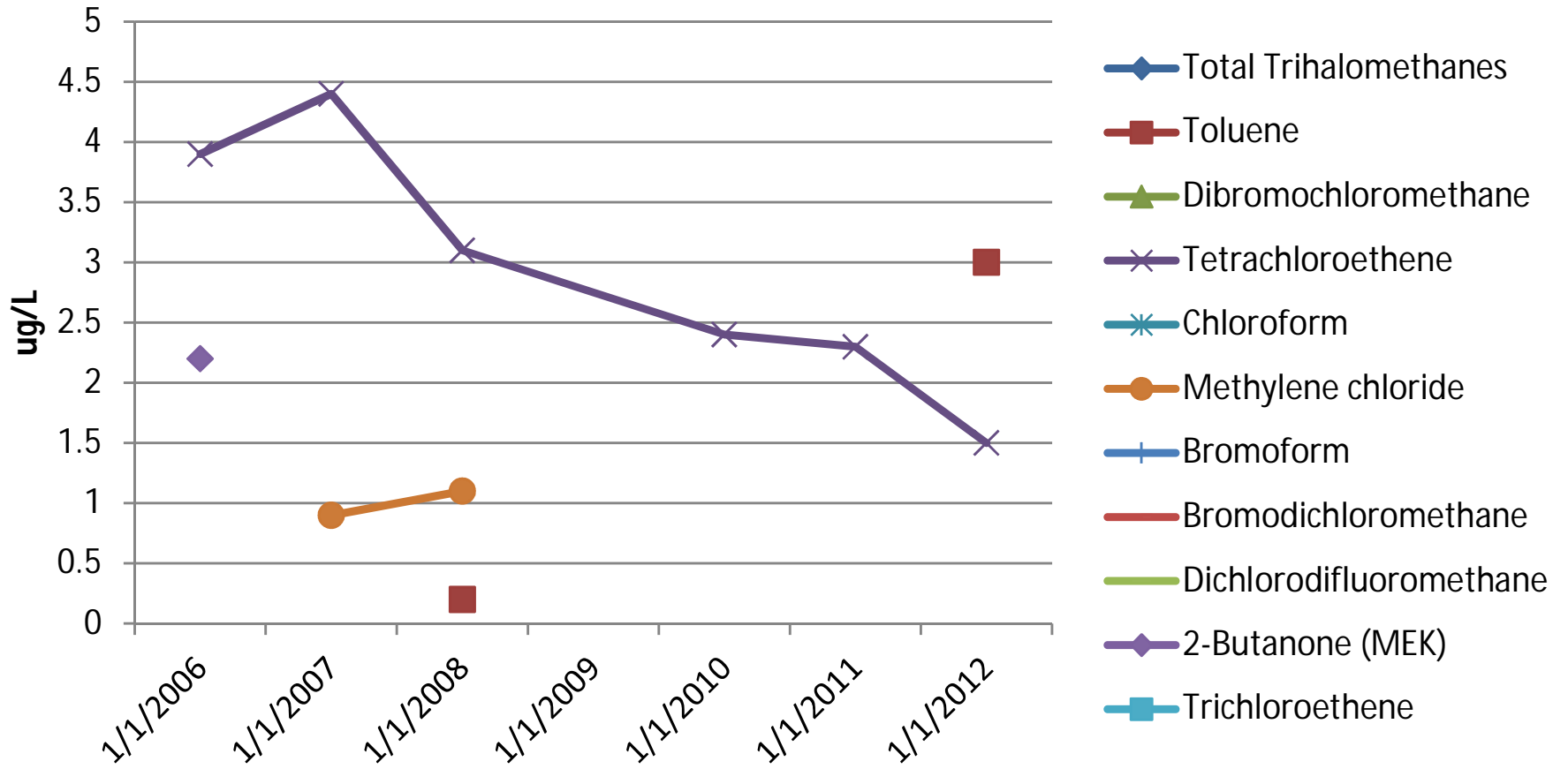
NCLF9: Inorganics



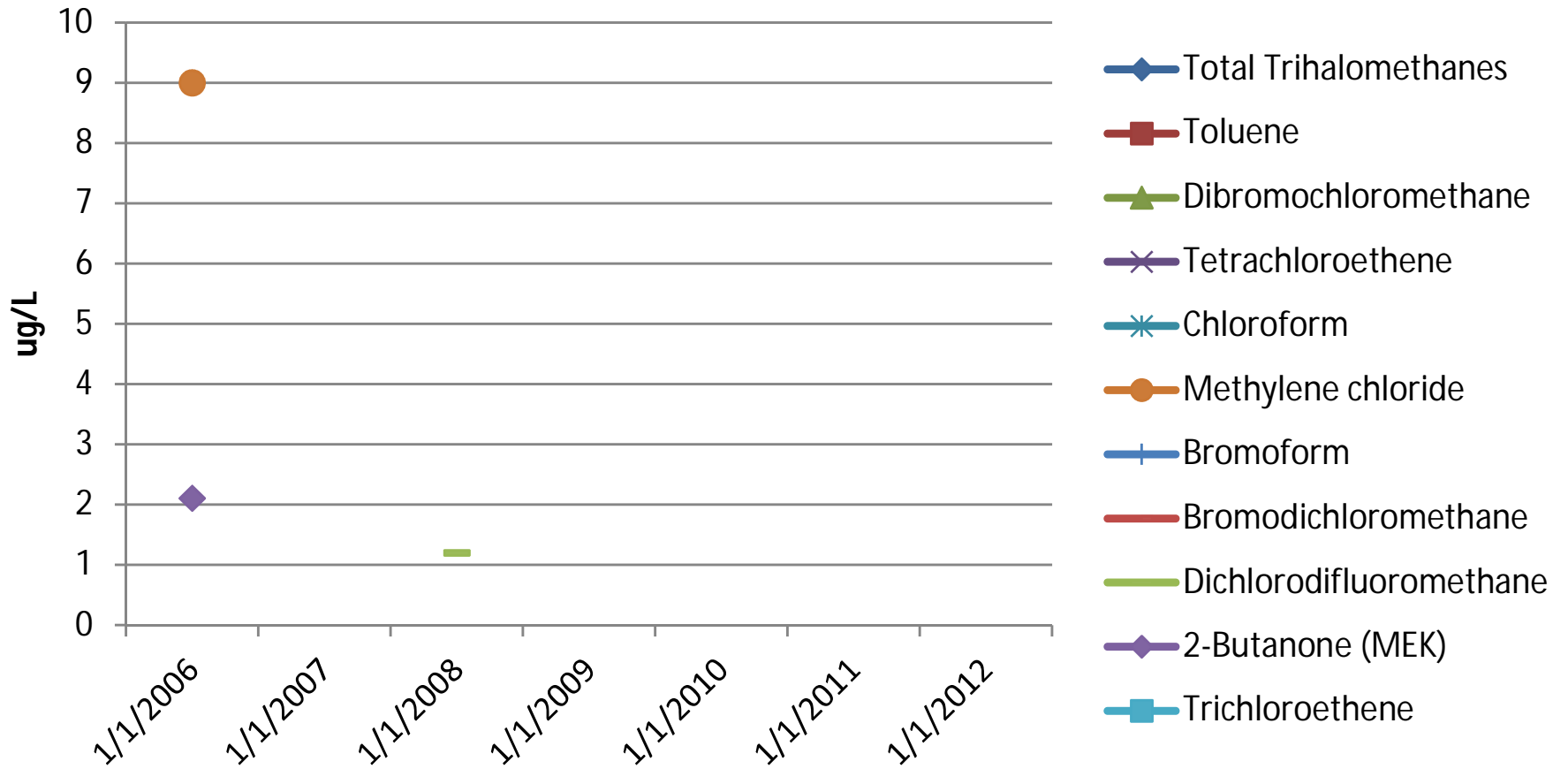
NCLF2: Organics



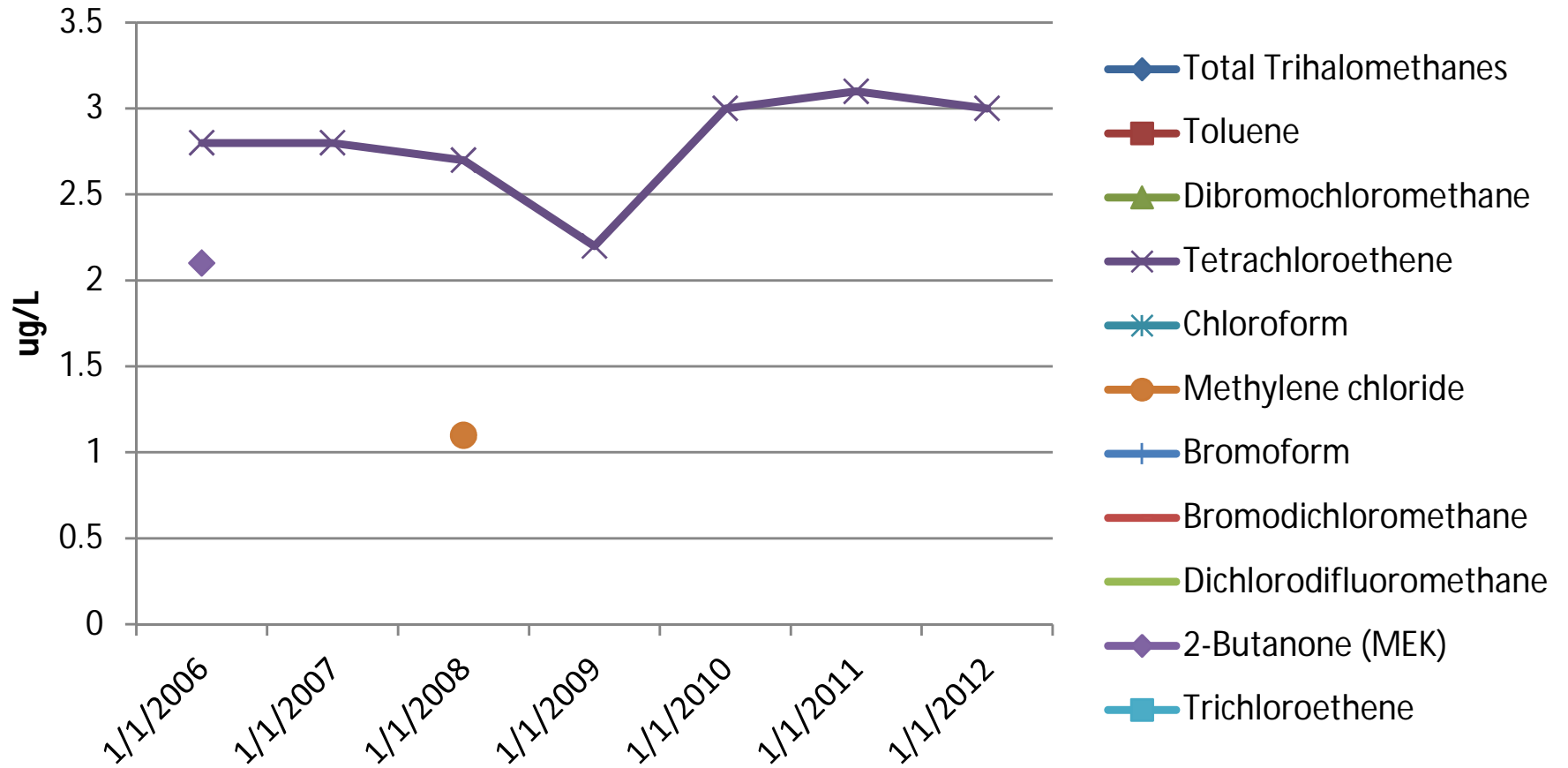
NCLF3: Organics



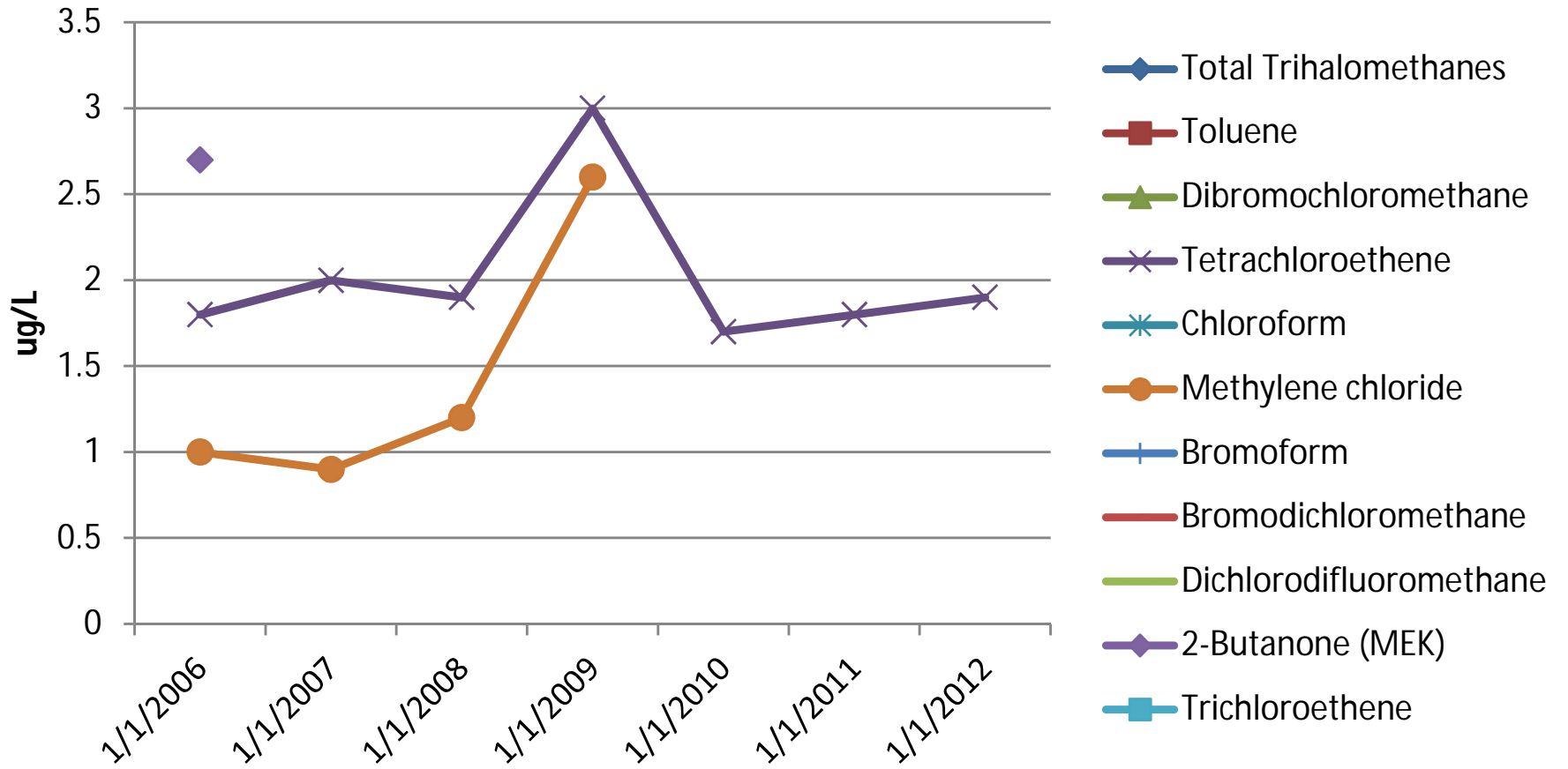
NCLF5: Organics



NCLF6: Organics



NCLF7: Organics



NCLF8: Organics

