Coastal Land Design, PLLC
P. O. Box 1172 Wilmington, NC 28402
Phone: 910.254.9333 Fax: 910.254.0502

September 16, 2009

Mr. Tony Duque
Brownfields Project Manager
NCDENR Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

Re: 2009 Annual Report
Cape Fear Soccerplex, LLC
Flemington Landfill Brownfields Project

Dear Tony,

In accordance with the Brownfields Agreement between NCDENR and Cape Fear Soccerplex, LLC, I am submitting the required Annual Report for your review. The Report contains the Land Use Restriction Update, Methane and Groundwater Testing and Infiltration/Moisture Monitoring Repots.

If you have any questions or require additional information, please do not hesitate to contact this office.

Sincerely,

Frank Braxton

FLEMINGTON LANDFILL

ECS CAROLINAS, LLP

"Setting the Standard for Service"

Geotechnical • Construction Materials • Environmental • Facilities

July 23, 2009

Mr. Frank Braxton
Coastal Land Design, LLC
313 Walnut Street, Suite 101
Wilmington, North Carolina 28401

Reference: Annual Groundwater and Methane Monitoring Report
Cape Fear Soccer Complex
211 Sutton Steam Plant Road
Wilmington, New Hanover County, North Carolina
ECS Carolinas, LLP Project No. 22-12830A1

Dear Mr. Braxton:

ECS Carolinas, LLP (ECS) is pleased to provide you with the results of our annual groundwater and methane monitoring for the referenced property. Our services were provided in general accordance with ECS Proposal No. 10702R dated October 25, 2007 and accepted December 1, 2007.

PROJECT INFORMATION

The Cape Fear Soccer Complex was redeveloped under a Brownfields Agreement between the site developer and the North Carolina Department of Environment and Natural Resources (NCDENR). Per this agreement, annual groundwater monitoring and methane monitoring is required. However, please note that ECS has not been provided with a copy of the existing Brownfields Agreement. The existing monitoring wells at the site had had either been destroyed during redevelopment activities or required relocation due to adjacent property operations. ECS re-installed seven groundwater monitoring wells and two methane monitoring wells at the site on February 21, 2007 with subsequent groundwater and methane gas sampling. Information pertaining to the well installations was included in the Annual Groundwater and Methane Monitoring Report dated March 19, 2007 and prepared by ECS.

METHANE MONITORING

On July 8-10, 2009, ECS mobilized to the site to record methane readings from the two methane monitoring wells. ECS placed a plastic bag over each methane monitoring well casing and sealed the bag to the PVC with duct tape. The sampling probe was used to puncture the plastic bag to obtain the readings. A Foxboro TVA 1000 (flame ionizing detector) with a charcoal filter was used to measure the methane readings. Initial readings were recorded. The readings were allowed to stabilize (approximately 15 to 20 minutes). The stabilized readings were also recorded. The following table lists the methane readings.

Monitoring Well	Date	Ambient Air	Peak	Stabilized Reading (after 15-20 minutes)
M-1	2/28/07	1.4 ppm	6,000 ppm	650 ppm
	7/2/08	1.8 ppm	8,200 ppm	2,600 ppm
	7/9/09	1.87 ppm	2,000 ppm	1,697 ppm
M-2	2/28/07	1.8 ppm	1,000 ppm	500 ppm
	7/2/08	0.6 ppm	10,000 ppm	2,800 ppm
	7/9/09	0.8 ppm	1,400 ppm	976 ppm

ppm = parts per million

The methane concentrations showed a decrease from the July 2008 sampling event.

GROUNDWATER MONITORING

On July 8-10, 2009, ECS mobilized to the site to collect groundwater samples from the exisiting groundwater monitoring wells. ECS purged each well (three well volumes) prior to sampling using a peristaltic pump. Field measurements of temperature, pH, turbidity and specific conductance were recorded after each well volume. After purging the wells, a groundwater sample was collected from each well using the peristaltic pump. The samples were placed in laboratory prepared containers using a new pair of disposable nitrile gloves. The sample containers were labeled with the project name, sample location and the date and time that the sample was collected. The sample containers were then placed in a cooler containing ice (4°C) and were delivered to SGS Environmental Services, Inc., a North Carolina certified laboratory located in Wilmington, North Carolina under chain-of-custody. The groundwater samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260, Priority Pollutant Metals by EPA Method 6010B, nitrate-nitrite, ammonia, chloride, chemical oxygen demand (COD) and total organic carbon (TOC).

The laboratory analytical results of the groundwater sampling have been summarized in the attached Table 1. Fifteen target constituents were identified in the groundwater samples. Of these, three constituents (benzene, nickel, and zinc) were identified in at least one well at concentrations exceeding the State 15A NCAC 2L groundwater standards. However, only one constituent (zinc) was identified in the site groundwater (GW-4) at ten times the 2L Standard.

The site showed a general increase in concentrations of VOCs in the July 2009 sampling event from the July 2008 sampling event. Concentrations of VOCs increased in wells GW-1, GW-2, W-1, and W-5. Concentrations of VOCs in wells GW-3, GW-4, and W-3 appeared similar between the July 2008 and July 2009 sampling events. Additionally, benzene concentrations detected in wells GW-1, GW-2, W-1, and W-5 were above the 15A NCAC 2L Standard.

The site showed a decrease in concentrations of metals. Arsenic, chromium, copper, lead, nickel, selenium, zinc, and mercury were detected in the groundwater samples collected in July 2008 but only copper, nickel, and zinc were the July 2009 sampling event. Additionally, concentrations of copper, nickel and zinc from the July 2009 samples showed a decrease in concentration compared to the July 2008 concentrations, with the exception of concentrations from GW-3. Concentrations of lead and zinc detected in well GW-3 were above their respective 15A NCAC 2L Standards.

Chemical oxygen demand ranged from non-detect to 64.5 mg/L in the analyzed samples. Total organic carbon ranged from 0.529 mg/L to 17.2 mg/L in the analyzed samples. The ammonia, chloride, and nitrate-nitrite concentrations appeared similar to the concentrations from the July 2008 sampling event. The pH readings from the groundwater samples were in general higher in the July 2009 sampling event than the July 2008 sampling event. Samples from each well sampled contained pH readings of less than 6.5 standard units. The turbidity readings from the groundwater samples were in general less in the July 2009 sampling event than the July 2008 sampling event.

CONCLUSIONS AND RECOMMENDATIONS

In July 2009, ECS performed methane gas monitoring from two monitoring wells and collected groundwater samples from seven monitoring wells. The results of the methane monitoring showed a decrease in methane gas concentrations since the July 2008 sampling event. The results of the groundwater sampling showed a general increase in concentrations of VOCs from the July 2008 sampling event to the July 2009 sampling event. The groundwater sampling also shoed a decrease in the concentrations of metals compared to the concentrations from the July 2008 sampling event. This could be due to a decrease in suspended sediments in the groundwater samples. This conclusion is supported by the fact that the turbidity readings of the groundwater samples collected during the July 2009 sampling event were, in general, less than the turbidity readings from the July 2008 sampling event.

Based on the results of the annual monitoring event, ECS recommends continued monitoring with the site's Brownfields Agreement with the next annual monitoring event slated for July 2010. ECS recommends that a copy of this report be submitted to the NCDENR Brownfields Group for their review.

ECS is pleased to have the opportunity to offer our services. If you have any questions or comments concerning the contents of the enclosed documents or other related topics, please contact us at (910) 686-9114.

Respectfully submitted,

ECS CAROLINAS, LLP

Lee Ann Jones

Lee Ann Jones
Staff Environmental Scientist

John S. Lair, P.G.
Principal Geologist
NC Licensed Geologist #2075

NORTH CAROLINA LICENSED SEAL 2075 GEOLOGIST JOHN SPENCER LAIR

Enclosures: Figures
Table 1 – Summary of Groundwater Data
Laboratory Data Sheets

TABLE 1 - SUMMARY OF GROUNDWATER DATA
CAPE FEAR SOCCER COMPLEX
211 SUTTON STEAM PLANT ROAD
WILMINGTON, NORTH CAROLINA
ECS PROJECT NO. 22-12830A1

Well Location	Date	GW-1	GW-2	GW-3	GW-4	W-1	W-3	W-5	15A NCAC 2L Standard
Benzene (ug/L)	02-23-07	**8.08**	**10.4**	<1.00	**2.26**	<1.00	<1.00	**11.0**	1
	07-07-08	**6.43**	**6.43**	<1.00	**2.43**	<1.00	<1.00	**9.79**	
	07-09-09	**7.09**	**7.32**	<1.00	<1.00	**2.53**	<1.00	**8.03**	
Chlorobenzene (ug/L)	02-23-07	14.3	**58.1**	<1.00	49.6	<1.00	3.77	13.4	50
	07-07-08	13.1	24.1	<1.00	40.5	1.59	2.46	13.1	
	07-09-09	22.9	11.3	<1.00	<1.00	20.6	<1.00	36.8	
1,2-Dichlorobenzene (ug/L)	02-23-07	<1.00	2.72	<1.00	5.38	<1.00	<1.00	<1.00	NS
	07-07-08	<1.00	1.82	<1.00	4.06	<1.00	<1.00	<1.00	
	07-09-09	1.10	<1.00	<1.00	<1.00	2.01	<1.00	2.33	
1,4-Dichlorobenzene (ug/L)	02-23-07	2.37	5.76	<1.00	6.52	<1.00	<1.00	1.82	NS
	07-07-08	2.71	5.08	<1.00	7.23	<1.00	<1.00	2.36	
	07-09-09	3.60	1.72	<1.00	<1.00	4.72	<1.00	5.87	
Isopropylbenzene (ug/L)	02-23-07	1.48	<2.0	<1.00	<2.00	<1.00	<1.00	1.28	70
	07-07-08	1.52	1.71	<1.00	1.07	<1.00	<1.00	1.37	
	07-09-09	1.62	1.14	<1.00	<1.00	<1.00	<1.00	1.56	
4-Isopropyltoluene (ug/L)	02-23-07	3.61	<2.0	<1.00	<2.00	<1.00	<1.00	<1.00	NS
	07-07-08	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	07-09-09	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Naphthalene (ug/L)	02-23-07	7.84	<2.0	<1.00	<2.00	<1.00	<1.00	**23.1**	21
	07-07-08	7.70	<1.00	<1.00	1.35	<1.00	<1.00	**21.5**	
	07-09-09	8.77	13.6	<1.00	<1.00	1.87	<1.00	<1.00	
n-Propylbenzene (ug/L)	02-23-07	<1.00	<2.0	<1.00	<2.00	<1.00	<1.00	<1.00	70
	07-07-08	<1.00	1.37	<1.00	<1.00	<1.00	<1.00	<1.00	
	07-09-09	1.37	<1.00	<1.00	<1.00	<1.00	<1.00	1.26	
Arsenic (mg/L)	02-23-07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.05
	07-07-08	0.0139	<0.0100	0.0313	**0.0627**	0.0366	<0.0100	0.0234	
	07-09-09	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	
Chromium (mg/L)	02-23-07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.05
	07-07-08	0.0446	**0.0406**	**0.134**	**0.256**	**0.0963**	0.0456	0.0916	
	07-09-09	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	
Copper (mg/L)	02-23-07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.1
	07-07-08	0.105	0.045	0.0523	**0.200**	0.0610	0.0338	0.0840	
	07-09-09	<0.0100	<0.0100	0.0160	<0.0100	<0.0100	<0.0100	<0.0100	
Lead (mg/L)	02-23-07	0.0113	**0.0193**	**0.147**	**0.045**	**0.0512**	<0.0100	0.0106	0.015
	07-07-08	**0.0771**	**0.0465**	**0.0707**	**0.187**	**0.0602**	**0.0346**	**0.113**	
	07-09-09	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	
Nickle (mg/L)	02-23-07	<0.0100	<0.0100	0.0529	<0.0100	<0.0100	<0.0100	<0.0100	0.1
	07-07-08	**0.146**	0.0366	0.0698	**0.156**	**0.263**	0.0253	0.0477	
	07-09-09	<0.0100	<0.0100	**0.113**	<0.0100	<0.0100	<0.0100	<0.0100	
Selenium (mg/L)	02-23-07	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.05
	07-07-08	0.0332	0.0251	0.0231	0.0385	<0.0200	<0.0200	0.0319	
	07-09-09	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	
Zinc (mg/L)	02-23-07	0.0841	0.0447	**5.16**	0.0482	<0.0200	<0.0200	0.0219	1.05
	07-07-08	0.588	0.196	0.175	**2.19**	**22.2**	0.0680	0.422	
	07-09-09	<0.0200	<0.0200	**11.4**	<0.0200	<0.0200	<0.0200	<0.0200	
Mercury (mg/L)	02-23-07	<0.000285	<0.000285	<0.000285	<0.000285	<0.000285	<0.000285	<0.000285	0.00105
	07-07-08	0.000444	<0.000285	<0.000285	**0.00204**	0.000679	<0.000285	0.000892	
	07-09-09	<0.000285	<0.000285	<0.000285	<0.000285	<0.000285	<0.000285	<0.000285	
Ammonia (mg/L)	02-23-07	17.0	39.5	0.2	12.1	1.2	2.6	14.4	NS
	07-07-08	11.4	25.2	0.4	16.2	1.7	1.1	13.5	
	07-09-09	12.2	42.7	0.422	11.1	0.380	<0.25	11.0	
Chloride (mg/L)	02-23-07	16.2	10.9	4.5	5.5	4.5	3.8	5.7	250
	07-07-08	10.2	5.75	6.00	6.10	4.77	4.55	5.74	
	07-09-09	6.24	10.5	7.39	5.22	4.23	3.35	5.51	

Well Location	Date	GW-1	GW-2	GW-3	GW-4	W-1	W-3	W-5	15A NCAC 2L Standard
COD (mg/L)	02-23-07	74	107	12	60	10	11	44	NS
	07-07-08	332	132	354	765	172	107	702	
	07-09-09	52.1	64.5	13.7	57.6	<12.5	<12.5	39.1	
Nitrate/Nitrite (mg/L)	02-23-07	<0.02	<0.02	2.75	0.02	2.73	2.63	<0.02	NS*
	07-07-08	0.07	0.07	0.90	0.09	5.34	2.70	0.06	
	07-09-09	<0.1	<0.1	2.15	<0.1	5.36	2.99	<0.1	
TOC (mg/L)	02-23-07	35.1	26.6	5.0	9.4	4.0	6.5	32.9	NS
	07-07-08	29.8	19.0	37.7	80.8	11.0	5.39	40.6	
	07-09-09	14	17.2	4.23	13.1	1.55	0.529	9.69	
pH (su)	02-23-07	6.78	6.87	5.92	6.49	6.56	6.58	6.51	6.5-8.5
	07-07-08	**5.95**	**6.28**	**4.78**	**5.85**	**4.78**	**4.79**	7.05	
	07-09-09	**6.09**	**6.28**	**6.20**	**5.89**	**5.00**	**6.05**	**5.80**	
Temperature (°C)	02-23-07	18.2	21.0	17.8	18.4	17.9	17.9	20.0	NS
	07-07-08	21.5	23.3	23.4	23.3	23.8	23.6	28	
	07-09-09	22.2	22.9	25.1	26.4	33.0	23.2	30.7	
Conductivity (mS/cm)	02-23-07	0.948	1.05	0.235	0.657	0.340	0.308	0.648	NS
	07-07-08	0.71	0.77	0.31	0.53	0.12	0.01	0.56	
	07-09-09	0.54	0.96	error	error	0.10	0.07	0.49	
Tubidity (NTU)	02-23-07	131	134	143	114	162	120	122	NS
	07-07-08	3.14	358	49.7	error	2,242	1,115	27,000	
	07-09-09	3.20	5	8.3	19.0	3.55	1.70	21.0	

NS = No Standard
* Nitrate 2L Standard = 10.0 gm/L and Nitrite 2L Standard = 1.0 mg/L
error = instrument error

Created by: laj 07/20/09
Checked by: VC

FIGURE 1: TOPOGRAPHIC MAP

Approximate Scale: Not to Scale

N

Source: USGS Castle Hayne North Carolina Quadrangle, dated 1970

Annual Groundwater and Methane Monitoring Report Cape Fear Soccer Complex 211 Sutton Steam Plant Road Wilmington, North Carolina	ECS LLP CAROLINAS	ECS Project No. 22-12830A1 July 2009

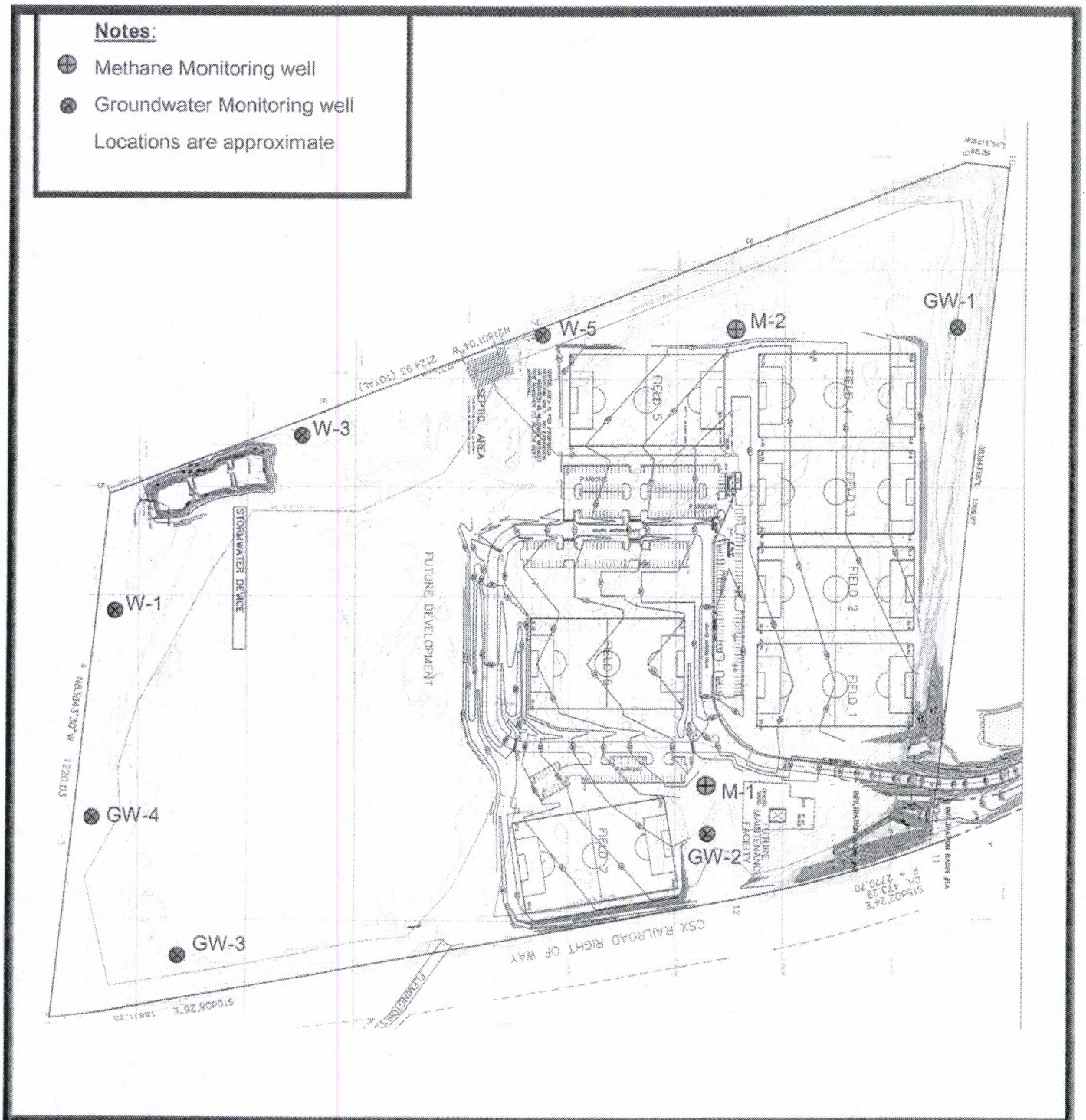

FIGURE 2: MONITORING WELL LOCATION MAP

Approximate Scale: Not to Scale

N

Source: Coastal Land Design Cape Fear Soccer Complex Monitoring Well Plan

Annual Groundwater and Methane Monitoring Report Cape Fear Soccer Complex 211 Sutton Steam Plant Road Wilmington, North Carolina	ECS LLP CAROLINAS	ECS Project No. 22-12830A1 July 2009

SGS North America, Inc.

SGS

Ms. Lee Ann Jones
ECS
7211 Ogden Business Park
Suite 201
Wilmington NC 28411
Report Number: G161-2834

Client Project: CF Soccer

Dear Ms. Jones:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS Environmental Services, Inc.

Project Manager
Lori Lockamy

21 July 2009
Date

SGS North America, Inc.

List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

UJ = Target analytes with recoveries that are 10% < %R < LCL; # of MEs are allowable and compounds are not detected in the sample.

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:
1) Metals and mercury samples are digested with a hot block; see the standard operating procedure document for details.
2) Uncertainty for all reported data is less than or equal to 30 percent.

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: GW-1
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-1B
Lab Project ID: G161-2834

Analyzed By: DVO
Date Collected: 7/9/2009 13:00
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Acetone	BQL	25.0	1	7/20/2009
Benzene	**7.09**	1.00	1	7/20/2009
Bromobenzene	BQL	1.00	1	7/20/2009
Bromochloromethane	BQL	1.00	1	7/20/2009
Bromodichloromethane	BQL	1.00	1	7/20/2009
Bromoform	BQL	1.00	1	7/20/2009
Bromomethane	BQL	1.00	1	7/20/2009
2-Butanone	BQL	25.0	1	7/20/2009
n-Butylbenzene	BQL	1.00	1	7/20/2009
sec-Butylbenzene	BQL	1.00	1	7/20/2009
tert-Butylbenzene	BQL	1.00	1	7/20/2009
Carbon disulfide	BQL	1.00	1	7/20/2009
Carbon tetrachloride	BQL	1.00	1	7/20/2009
Chlorobenzene	**22.9**	1.00	1	7/20/2009
Chloroethane	BQL	1.00	1	7/20/2009
Chloroform	BQL	1.00	1	7/20/2009
Chloromethane	BQL	1.00	1	7/20/2009
2-Chlorotoluene	BQL	1.00	1	7/20/2009
4-Chlorotoluene	BQL	1.00	1	7/20/2009
Dibromochloromethane	BQL	1.00	1	7/20/2009
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/20/2009
Dibromomethane	BQL	1.00	1	7/20/2009
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/20/2009
1,2-Dichlorobenzene	**1.10**	1.00	1	7/20/2009
1,3-Dichlorobenzene	BQL	1.00	1	7/20/2009
1,4-Dichlorobenzene	**3.60**	1.00	1	7/20/2009
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/20/2009
1,1-Dichloroethane	BQL	1.00	1	7/20/2009
1,1-Dichloroethene	BQL	1.00	1	7/20/2009
1,2-Dichloroethane	BQL	1.00	1	7/20/2009
cis-1,2-Dichloroethene	BQL	1.00	1	7/20/2009
trans-1,2-dichloroethene	BQL	1.00	1	7/20/2009
1,2-Dichloropropane	BQL	1.00	1	7/20/2009
1,3-Dichloropropane	BQL	1.00	1	7/20/2009
2,2-Dichloropropane	BQL	1.00	1	7/20/2009
1,1-Dichloropropene	BQL	1.00	1	7/20/2009
cis-1,3-Dichloropropene	BQL	1.00	1	7/20/2009
trans-1,3-Dichloropropene	BQL	1.00	1	7/20/2009
Dichlorodifluoromethane	BQL	5.00	1	7/20/2009
Diisopropyl ether (DIPE)	BQL	1.00	1	7/20/2009
Ethylbenzene	BQL	1.00	1	7/20/2009
Hexachlorobutadiene	BQL	1.00	1	7/20/2009
2-Hexanone	BQL	5.00	1	7/20/2009
Iodomethane	BQL	1.00	1	7/20/2009
Isopropylbenzene	**1.62**	1.00	1	7/20/2009

GCMS

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: GW-1
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-1B
Lab Project ID: G161-2834

Analyzed By: DVO
Date Collected: 7/9/2009 13:00
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
4-Isopropyltoluene	BQL	1.00	1	7/20/2009
Methylene chloride	BQL	5.00	1	7/20/2009
4-Methyl-2-pentanone	BQL	5.00	1	7/20/2009
Methyl-tert-butyl ether (MTBE)	BQL	1.00	1	7/20/2009
Naphthalene	**8.77**	1.00	1	7/20/2009
n-Propyl benzene	**1.37**	1.00	1	7/20/2009
Styrene	BQL	1.00	1	7/20/2009
1,1,1,2-Tetrachloroethane	BQL	1.00	1	7/20/2009
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/20/2009
Tetrachloroethene	BQL	1.00	1	7/20/2009
Toluene	BQL	1.00	1	7/20/2009
1,2,3-Trichlorobenzene	BQL	1.00	1	7/20/2009
1,2,4-Trichlorobenzene	BQL	1.00	1	7/20/2009
Trichloroethene	BQL	1.00	1	7/20/2009
1,1,1-Trichloroethane	BQL	1.00	1	7/20/2009
1,1,2-Trichloroethane	BQL	1.00	1	7/20/2009
Trichlorofluoromethane	BQL	1.00	1	7/20/2009
1,2,3-Trichloropropane	BQL	1.00	1	7/20/2009
1,2,4-Trimethylbenzene	BQL	1.00	1	7/20/2009
1,3,5-Trimethylbenzene	BQL	1.00	1	7/20/2009
Vinyl chloride	BQL	1.00	1	7/20/2009
m-,p-Xylene	BQL	2.00	1	7/20/2009
o-Xylene	BQL	1.00	1	7/20/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.2	102
Toluene-d8	10	9.76	98
4-Bromofluorobenzene	10	9.98	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: DVO

Reviewed By: [illegible]

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: GW-2
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-2A
Lab Project ID: G161-2834

Analyzed By: CLP
Date Collected: 7/9/2009 10:30
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Acetone	BQL	25.0	1	7/15/2009
Benzene	**7.32**	1.00	1	7/15/2009
Bromobenzene	BQL	1.00	1	7/15/2009
Bromochloromethane	BQL	1.00	1	7/15/2009
Bromodichloromethane	BQL	1.00	1	7/15/2009
Bromoform	BQL	1.00	1	7/15/2009
Bromomethane	BQL	1.00	1	7/15/2009
2-Butanone	BQL	25.0	1	7/15/2009
n-Butylbenzene	BQL	1.00	1	7/15/2009
sec-Butylbenzene	BQL	1.00	1	7/15/2009
tert-Butylbenzene	BQL	1.00	1	7/15/2009
Carbon disulfide	BQL	1.00	1	7/15/2009
Carbon tetrachloride	BQL	1.00	1	7/15/2009
Chlorobenzene	**11.3**	1.00	1	7/15/2009
Chloroethane	BQL	1.00	1	7/15/2009
Chloroform	BQL	1.00	1	7/15/2009
Chloromethane	BQL	1.00	1	7/15/2009
2-Chlorotoluene	BQL	1.00	1	7/15/2009
4-Chlorotoluene	BQL	1.00	1	7/15/2009
Dibromochloromethane	BQL	1.00	1	7/15/2009
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/15/2009
Dibromomethane	BQL	1.00	1	7/15/2009
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/15/2009
1,2-Dichlorobenzene	BQL	1.00	1	7/15/2009
1,3-Dichlorobenzene	BQL	1.00	1	7/15/2009
1,4-Dichlorobenzene	**1.72**	1.00	1	7/15/2009
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/15/2009
1,1-Dichloroethane	BQL	1.00	1	7/15/2009
1,1-Dichloroethene	BQL	1.00	1	7/15/2009
1,2-Dichloroethane	BQL	1.00	1	7/15/2009
cis-1,2-Dichloroethene	BQL	1.00	1	7/15/2009
trans-1,2-dichloroethene	BQL	1.00	1	7/15/2009
1,2-Dichloropropane	BQL	1.00	1	7/15/2009
1,3-Dichloropropane	BQL	1.00	1	7/15/2009
2,2-Dichloropropane	BQL	1.00	1	7/15/2009
1,1-Dichloropropene	BQL	1.00	1	7/15/2009
cis-1,3-Dichloropropene	BQL	1.00	1	7/15/2009
trans-1,3-Dichloropropene	BQL	1.00	1	7/15/2009
Dichlorodifluoromethane	BQL	5.00	1	7/15/2009
Diisopropyl ether (DIPE)	BQL	1.00	1	7/15/2009
Ethylbenzene	BQL	1.00	1	7/15/2009
Hexachlorobutadiene	BQL	1.00	1	7/15/2009
2-Hexanone	BQL	5.00	1	7/15/2009
Iodomethane	BQL	1.00	1	7/15/2009
Isopropylbenzene	**1.14**	1.00	1	7/15/2009

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: GW-2
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-2A
Lab Project ID: G161-2834

Analyzed By: CLP
Date Collected: 7/9/2009 10:30
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
4-Isopropyltoluene	BQL	1.00	1	7/15/2009
Methylene chloride	BQL	5.00	1	7/15/2009
4-Methyl-2-pentanone	BQL	5.00	1	7/15/2009
Methyl-tert-butyl ether (MTBE)	BQL	1.00	1	7/15/2009
Naphthalene	**13.6**	1.00	1	7/15/2009
n-Propyl benzene	BQL	1.00	1	7/15/2009
Styrene	BQL	1.00	1	7/15/2009
1,1,1,2-Tetrachloroethane	BQL	1.00	1	7/15/2009
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/15/2009
Tetrachloroethene	BQL	1.00	1	7/15/2009
Toluene	BQL	1.00	1	7/15/2009
1,2,3-Trichlorobenzene	BQL	1.00	1	7/15/2009
1,2,4-Trichlorobenzene	BQL	1.00	1	7/15/2009
Trichloroethene	BQL	1.00	1	7/15/2009
1,1,1-Trichloroethane	BQL	1.00	1	7/15/2009
1,1,2-Trichloroethane	BQL	1.00	1	7/15/2009
Trichlorofluoromethane	BQL	1.00	1	7/15/2009
1,2,3-Trichloropropane	BQL	1.00	1	7/15/2009
1,2,4-Trimethylbenzene	BQL	1.00	1	7/15/2009
1,3,5-Trimethylbenzene	BQL	1.00	1	7/15/2009
Vinyl chloride	BQL	1.00	1	7/15/2009
m-,p-Xylene	BQL	2.00	1	7/15/2009
o-Xylene	BQL	1.00	1	7/15/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	11	110
4-Bromofluorobenzene	10	8.94	89

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: GW-3
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-3A
Lab Project ID: G161-2834

Analyzed By: CLP
Date Collected: 7/9/2009 10:25
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Acetone	BQL	25.0	1	7/15/2009
Benzene	BQL	1.00	1	7/15/2009
Bromobenzene	BQL	1.00	1	7/15/2009
Bromochloromethane	BQL	1.00	1	7/15/2009
Bromodichloromethane	BQL	1.00	1	7/15/2009
Bromoform	BQL	1.00	1	7/15/2009
Bromomethane	BQL	1.00	1	7/15/2009
2-Butanone	BQL	25.0	1	7/15/2009
n-Butylbenzene	BQL	1.00	1	7/15/2009
sec-Butylbenzene	BQL	1.00	1	7/15/2009
tert-Butylbenzene	BQL	1.00	1	7/15/2009
Carbon disulfide	BQL	1.00	1	7/15/2009
Carbon tetrachloride	BQL	1.00	1	7/15/2009
Chlorobenzene	BQL	1.00	1	7/15/2009
Chloroethane	BQL	1.00	1	7/15/2009
Chloroform	BQL	1.00	1	7/15/2009
Chloromethane	BQL	1.00	1	7/15/2009
2-Chlorotoluene	BQL	1.00	1	7/15/2009
4-Chlorotoluene	BQL	1.00	1	7/15/2009
Dibromochloromethane	BQL	1.00	1	7/15/2009
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/15/2009
Dibromomethane	BQL	1.00	1	7/15/2009
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/15/2009
1,2-Dichlorobenzene	BQL	1.00	1	7/15/2009
1,3-Dichlorobenzene	BQL	1.00	1	7/15/2009
1,4-Dichlorobenzene	BQL	1.00	1	7/15/2009
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/15/2009
1,1-Dichloroethane	BQL	1.00	1	7/15/2009
1,1-Dichloroethene	BQL	1.00	1	7/15/2009
1,2-Dichloroethane	BQL	1.00	1	7/15/2009
cis-1,2-Dichloroethene	BQL	1.00	1	7/15/2009
trans-1,2-dichloroethene	BQL	1.00	1	7/15/2009
1,2-Dichloropropane	BQL	1.00	1	7/15/2009
1,3-Dichloropropane	BQL	1.00	1	7/15/2009
2,2-Dichloropropane	BQL	1.00	1	7/15/2009
1,1-Dichloropropene	BQL	1.00	1	7/15/2009
cis-1,3-Dichloropropene	BQL	1.00	1	7/15/2009
trans-1,3-Dichloropropene	BQL	1.00	1	7/15/2009
Dichlorodifluoromethane	BQL	5.00	1	7/15/2009
Diisopropyl ether (DIPE)	BQL	1.00	1	7/15/2009
Ethylbenzene	BQL	1.00	1	7/15/2009
Hexachlorobutadiene	BQL	1.00	1	7/15/2009
2-Hexanone	BQL	5.00	1	7/15/2009
Iodomethane	BQL	1.00	1	7/15/2009
Isopropylbenzene	BQL	1.00	1	7/15/2009

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: GW-3
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-3A
Lab Project ID: G161-2834

Analyzed By: CLP
Date Collected: 7/9/2009 10:25
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
4-Isopropyltoluene	BQL	1.00	1	7/15/2009
Methylene chloride	BQL	5.00	1	7/15/2009
4-Methyl-2-pentanone	BQL	5.00	1	7/15/2009
Methyl-tert-butyl ether (MTBE)	BQL	1.00	1	7/15/2009
Naphthalene	BQL	1.00	1	7/15/2009
n-Propyl benzene	BQL	1.00	1	7/15/2009
Styrene	BQL	1.00	1	7/15/2009
1,1,1,2-Tetrachloroethane	BQL	1.00	1	7/15/2009
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/15/2009
Tetrachloroethene	BQL	1.00	1	7/15/2009
Toluene	BQL	1.00	1	7/15/2009
1,2,3-Trichlorobenzene	BQL	1.00	1	7/15/2009
1,2,4-Trichlorobenzene	BQL	1.00	1	7/15/2009
Trichloroethene	BQL	1.00	1	7/15/2009
1,1,1-Trichloroethane	BQL	1.00	1	7/15/2009
1,1,2-Trichloroethane	BQL	1.00	1	7/15/2009
Trichlorofluoromethane	BQL	1.00	1	7/15/2009
1,2,3-Trichloropropane	BQL	1.00	1	7/15/2009
1,2,4-Trimethylbenzene	BQL	1.00	1	7/15/2009
1,3,5-Trimethylbenzene	BQL	1.00	1	7/15/2009
Vinyl chloride	BQL	1.00	1	7/15/2009
m-,p-Xylene	BQL	2.00	1	7/15/2009
o-Xylene	BQL	1.00	1	7/15/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	11.3	113
4-Bromofluorobenzene	10	8.83	88

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: GW-4
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-4A
Lab Project ID: G161-2834

Analyzed By: CLP
Date Collected: 7/9/2009 16:40
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Acetone	BQL	25.0	1	7/15/2009
Benzene	BQL	1.00	1	7/15/2009
Bromobenzene	BQL	1.00	1	7/15/2009
Bromochloromethane	BQL	1.00	1	7/15/2009
Bromodichloromethane	BQL	1.00	1	7/15/2009
Bromoform	BQL	1.00	1	7/15/2009
Bromomethane	BQL	1.00	1	7/15/2009
2-Butanone	BQL	25.0	1	7/15/2009
n-Butylbenzene	BQL	1.00	1	7/15/2009
sec-Butylbenzene	BQL	1.00	1	7/15/2009
tert-Butylbenzene	BQL	1.00	1	7/15/2009
Carbon disulfide	BQL	1.00	1	7/15/2009
Carbon tetrachloride	BQL	1.00	1	7/15/2009
Chlorobenzene	BQL	1.00	1	7/15/2009
Chloroethane	BQL	1.00	1	7/15/2009
Chloroform	BQL	1.00	1	7/15/2009
Chloromethane	BQL	1.00	1	7/15/2009
2-Chlorotoluene	BQL	1.00	1	7/15/2009
4-Chlorotoluene	BQL	1.00	1	7/15/2009
Dibromochloromethane	BQL	1.00	1	7/15/2009
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/15/2009
Dibromomethane	BQL	1.00	1	7/15/2009
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/15/2009
1,2-Dichlorobenzene	BQL	1.00	1	7/15/2009
1,3-Dichlorobenzene	BQL	1.00	1	7/15/2009
1,4-Dichlorobenzene	BQL	1.00	1	7/15/2009
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/15/2009
1,1-Dichloroethane	BQL	1.00	1	7/15/2009
1,1-Dichloroethene	BQL	1.00	1	7/15/2009
1,2-Dichloroethane	BQL	1.00	1	7/15/2009
cis-1,2-Dichloroethene	BQL	1.00	1	7/15/2009
trans-1,2-dichloroethene	BQL	1.00	1	7/15/2009
1,2-Dichloropropane	BQL	1.00	1	7/15/2009
1,3-Dichloropropane	BQL	1.00	1	7/15/2009
2,2-Dichloropropane	BQL	1.00	1	7/15/2009
1,1-Dichloropropene	BQL	1.00	1	7/15/2009
cis-1,3-Dichloropropene	BQL	1.00	1	7/15/2009
trans-1,3-Dichloropropene	BQL	1.00	1	7/15/2009
Dichlorodifluoromethane	BQL	5.00	1	7/15/2009
Diisopropyl ether (DIPE)	BQL	1.00	1	7/15/2009
Ethylbenzene	BQL	1.00	1	7/15/2009
Hexachlorobutadiene	BQL	1.00	1	7/15/2009
2-Hexanone	BQL	5.00	1	7/15/2009
Iodomethane	BQL	1.00	1	7/15/2009
Isopropylbenzene	BQL	1.00	1	7/15/2009

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: GW-4
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-4A
Lab Project ID: G161-2834

Analyzed By: CLP
Date Collected: 7/9/2009 16:40
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
4-Isopropyltoluene	BQL	1.00	1	7/15/2009
Methylene chloride	BQL	5.00	1	7/15/2009
4-Methyl-2-pentanone	BQL	5.00	1	7/15/2009
Methyl-tert-butyl ether (MTBE)	BQL	1.00	1	7/15/2009
Naphthalene	BQL	1.00	1	7/15/2009
n-Propyl benzene	BQL	1.00	1	7/15/2009
Styrene	BQL	1.00	1	7/15/2009
1,1,1,2-Tetrachloroethane	BQL	1.00	1	7/15/2009
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/15/2009
Tetrachloroethene	BQL	1.00	1	7/15/2009
Toluene	BQL	1.00	1	7/15/2009
1,2,3-Trichlorobenzene	BQL	1.00	1	7/15/2009
1,2,4-Trichlorobenzene	BQL	1.00	1	7/15/2009
Trichloroethene	BQL	1.00	1	7/15/2009
1,1,1-Trichloroethane	BQL	1.00	1	7/15/2009
1,1,2-Trichloroethane	BQL	1.00	1	7/15/2009
Trichlorofluoromethane	BQL	1.00	1	7/15/2009
1,2,3-Trichloropropane	BQL	1.00	1	7/15/2009
1,2,4-Trimethylbenzene	BQL	1.00	1	7/15/2009
1,3,5-Trimethylbenzene	BQL	1.00	1	7/15/2009
Vinyl chloride	BQL	1.00	1	7/15/2009
m-,p-Xylene	BQL	2.00	1	7/15/2009
o-Xylene	BQL	1.00	1	7/15/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	9.87	99
4-Bromofluorobenzene	10	9.06	91

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: W-1
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-5A
Lab Project ID: G161-2834

Analyzed By: CLP
Date Collected: 7/9/2009 15:07
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Acetone	BQL	25.0	1	7/15/2009
Benzene	**2.53**	1.00	1	7/15/2009
Bromobenzene	BQL	1.00	1	7/15/2009
Bromochloromethane	BQL	1.00	1	7/15/2009
Bromodichloromethane	BQL	1.00	1	7/15/2009
Bromoform	BQL	1.00	1	7/15/2009
Bromomethane	BQL	1.00	1	7/15/2009
2-Butanone	BQL	25.0	1	7/15/2009
n-Butylbenzene	BQL	1.00	1	7/15/2009
sec-Butylbenzene	BQL	1.00	1	7/15/2009
tert-Butylbenzene	BQL	1.00	1	7/15/2009
Carbon disulfide	BQL	1.00	1	7/15/2009
Carbon tetrachloride	BQL	1.00	1	7/15/2009
Chlorobenzene	**20.6**	1.00	1	7/15/2009
Chloroethane	BQL	1.00	1	7/15/2009
Chloroform	BQL	1.00	1	7/15/2009
Chloromethane	BQL	1.00	1	7/15/2009
2-Chlorotoluene	BQL	1.00	1	7/15/2009
4-Chlorotoluene	BQL	1.00	1	7/15/2009
Dibromochloromethane	BQL	1.00	1	7/15/2009
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/15/2009
Dibromomethane	BQL	1.00	1	7/15/2009
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/15/2009
1,2-Dichlorobenzene	**2.01**	1.00	1	7/15/2009
1,3-Dichlorobenzene	BQL	1.00	1	7/15/2009
1,4-Dichlorobenzene	**4.72**	1.00	1	7/15/2009
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/15/2009
1,1-Dichloroethane	BQL	1.00	1	7/15/2009
1,1-Dichloroethene	BQL	1.00	1	7/15/2009
1,2-Dichloroethane	BQL	1.00	1	7/15/2009
cis-1,2-Dichloroethene	BQL	1.00	1	7/15/2009
trans-1,2-dichloroethene	BQL	1.00	1	7/15/2009
1,2-Dichloropropane	BQL	1.00	1	7/15/2009
1,3-Dichloropropane	BQL	1.00	1	7/15/2009
2,2-Dichloropropane	BQL	1.00	1	7/15/2009
1,1-Dichloropropene	BQL	1.00	1	7/15/2009
cis-1,3-Dichloropropene	BQL	1.00	1	7/15/2009
trans-1,3-Dichloropropene	BQL	1.00	1	7/15/2009
Dichlorodifluoromethane	BQL	5.00	1	7/15/2009
Diisopropyl ether (DIPE)	BQL	1.00	1	7/15/2009
Ethylbenzene	BQL	1.00	1	7/15/2009
Hexachlorobutadiene	BQL	1.00	1	7/15/2009
2-Hexanone	BQL	5.00	1	7/15/2009
Iodomethane	BQL	1.00	1	7/15/2009
Isopropylbenzene	BQL	1.00	1	7/15/2009

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: W-1
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-5A
Lab Project ID: G161-2834

Analyzed By: CLP
Date Collected: 7/9/2009 15:07
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
4-Isopropyltoluene	BQL	1.00	1	7/15/2009
Methylene chloride	BQL	5.00	1	7/15/2009
4-Methyl-2-pentanone	BQL	5.00	1	7/15/2009
Methyl-tert-butyl ether (MTBE)	BQL	1.00	1	7/15/2009
Naphthalene	**1.87**	1.00	1	7/15/2009
n-Propyl benzene	BQL	1.00	1	7/15/2009
Styrene	BQL	1.00	1	7/15/2009
1,1,1,2-Tetrachloroethane	BQL	1.00	1	7/15/2009
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/15/2009
Tetrachloroethene	BQL	1.00	1	7/15/2009
Toluene	BQL	1.00	1	7/15/2009
1,2,3-Trichlorobenzene	BQL	1.00	1	7/15/2009
1,2,4-Trichlorobenzene	BQL	1.00	1	7/15/2009
Trichloroethene	BQL	1.00	1	7/15/2009
1,1,1-Trichloroethane	BQL	1.00	1	7/15/2009
1,1,2-Trichloroethane	BQL	1.00	1	7/15/2009
Trichlorofluoromethane	BQL	1.00	1	7/15/2009
1,2,3-Trichloropropane	BQL	1.00	1	7/15/2009
1,2,4-Trimethylbenzene	BQL	1.00	1	7/15/2009
1,3,5-Trimethylbenzene	BQL	1.00	1	7/15/2009
Vinyl chloride	BQL	1.00	1	7/15/2009
m-,p-Xylene	BQL	2.00	1	7/15/2009
o-Xylene	BQL	1.00	1	7/15/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	11.2	112
4-Bromofluorobenzene	10	9.26	93

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: W-3
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-6A
Lab Project ID: G161-2834

Analyzed By: CLP
Date Collected: 7/9/2009 9:05
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Acetone	BQL	25.0	1	7/15/2009
Benzene	BQL	1.00	1	7/15/2009
Bromobenzene	BQL	1.00	1	7/15/2009
Bromochloromethane	BQL	1.00	1	7/15/2009
Bromodichloromethane	BQL	1.00	1	7/15/2009
Bromoform	BQL	1.00	1	7/15/2009
Bromomethane	BQL	1.00	1	7/15/2009
2-Butanone	BQL	25.0	1	7/15/2009
n-Butylbenzene	BQL	1.00	1	7/15/2009
sec-Butylbenzene	BQL	1.00	1	7/15/2009
tert-Butylbenzene	BQL	1.00	1	7/15/2009
Carbon disulfide	BQL	1.00	1	7/15/2009
Carbon tetrachloride	BQL	1.00	1	7/15/2009
Chlorobenzene	BQL	1.00	1	7/15/2009
Chloroethane	BQL	1.00	1	7/15/2009
Chloroform	BQL	1.00	1	7/15/2009
Chloromethane	BQL	1.00	1	7/15/2009
2-Chlorotoluene	BQL	1.00	1	7/15/2009
4-Chlorotoluene	BQL	1.00	1	7/15/2009
Dibromochloromethane	BQL	1.00	1	7/15/2009
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/15/2009
Dibromomethane	BQL	1.00	1	7/15/2009
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/15/2009
1,2-Dichlorobenzene	BQL	1.00	1	7/15/2009
1,3-Dichlorobenzene	BQL	1.00	1	7/15/2009
1,4-Dichlorobenzene	BQL	1.00	1	7/15/2009
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/15/2009
1,1-Dichloroethane	BQL	1.00	1	7/15/2009
1,1-Dichloroethene	BQL	1.00	1	7/15/2009
1,2-Dichloroethane	BQL	1.00	1	7/15/2009
cis-1,2-Dichloroethene	BQL	1.00	1	7/15/2009
trans-1,2-dichloroethene	BQL	1.00	1	7/15/2009
1,2-Dichloropropane	BQL	1.00	1	7/15/2009
1,3-Dichloropropane	BQL	1.00	1	7/15/2009
2,2-Dichloropropane	BQL	1.00	1	7/15/2009
1,1-Dichloropropene	BQL	1.00	1	7/15/2009
cis-1,3-Dichloropropene	BQL	1.00	1	7/15/2009
trans-1,3-Dichloropropene	BQL	1.00	1	7/15/2009
Dichlorodifluoromethane	BQL	5.00	1	7/15/2009
Diisopropyl ether (DIPE)	BQL	1.00	1	7/15/2009
Ethylbenzene	BQL	1.00	1	7/15/2009
Hexachlorobutadiene	BQL	1.00	1	7/15/2009
2-Hexanone	BQL	5.00	1	7/15/2009
Iodomethane	BQL	1.00	1	7/15/2009
Isopropylbenzene	BQL	1.00	1	7/15/2009

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: W-3
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-6A
Lab Project ID: G161-2834

Analyzed By: CLP
Date Collected: 7/9/2009 9:05
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
4-Isopropyltoluene	BQL	1.00	1	7/15/2009
Methylene chloride	BQL	5.00	1	7/15/2009
4-Methyl-2-pentanone	BQL	5.00	1	7/15/2009
Methyl-tert-butyl ether (MTBE)	BQL	1.00	1	7/15/2009
Naphthalene	BQL	1.00	1	7/15/2009
n-Propyl benzene	BQL	1.00	1	7/15/2009
Styrene	BQL	1.00	1	7/15/2009
1,1,1,2-Tetrachloroethane	BQL	1.00	1	7/15/2009
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/15/2009
Tetrachloroethene	BQL	1.00	1	7/15/2009
Toluene	BQL	1.00	1	7/15/2009
1,2,3-Trichlorobenzene	BQL	1.00	1	7/15/2009
1,2,4-Trichlorobenzene	BQL	1.00	1	7/15/2009
Trichloroethene	BQL	1.00	1	7/15/2009
1,1,1-Trichloroethane	BQL	1.00	1	7/15/2009
1,1,2-Trichloroethane	BQL	1.00	1	7/15/2009
Trichlorofluoromethane	BQL	1.00	1	7/15/2009
1,2,3-Trichloropropane	BQL	1.00	1	7/15/2009
1,2,4-Trimethylbenzene	BQL	1.00	1	7/15/2009
1,3,5-Trimethylbenzene	BQL	1.00	1	7/15/2009
Vinyl chloride	BQL	1.00	1	7/15/2009
m-,p-Xylene	BQL	2.00	1	7/15/2009
o-Xylene	BQL	1.00	1	7/15/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	8.96	90
Toluene-d8	10	9.82	98
4-Bromofluorobenzene	10	9.71	97

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: W-5
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-7A
Lab Project ID: G161-2834

Analyzed By: CLP
Date Collected: 7/9/2009 13:41
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Acetone	BQL	25.0	1	7/15/2009
Benzene	**8.03**	1.00	1	7/15/2009
Bromobenzene	BQL	1.00	1	7/15/2009
Bromochloromethane	BQL	1.00	1	7/15/2009
Bromodichloromethane	BQL	1.00	1	7/15/2009
Bromoform	BQL	1.00	1	7/15/2009
Bromomethane	BQL	1.00	1	7/15/2009
2-Butanone	BQL	25.0	1	7/15/2009
n-Butylbenzene	BQL	1.00	1	7/15/2009
sec-Butylbenzene	BQL	1.00	1	7/15/2009
tert-Butylbenzene	BQL	1.00	1	7/15/2009
Carbon disulfide	BQL	1.00	1	7/15/2009
Carbon tetrachloride	BQL	1.00	1	7/15/2009
Chlorobenzene	**36.8**	1.00	1	7/15/2009
Chloroethane	BQL	1.00	1	7/15/2009
Chloroform	BQL	1.00	1	7/15/2009
Chloromethane	BQL	1.00	1	7/15/2009
2-Chlorotoluene	BQL	1.00	1	7/15/2009
4-Chlorotoluene	BQL	1.00	1	7/15/2009
Dibromochloromethane	BQL	1.00	1	7/15/2009
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/15/2009
Dibromomethane	BQL	1.00	1	7/15/2009
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/15/2009
1,2-Dichlorobenzene	**2.33**	1.00	1	7/15/2009
1,3-Dichlorobenzene	BQL	1.00	1	7/15/2009
1,4-Dichlorobenzene	**5.87**	1.00	1	7/15/2009
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/15/2009
1,1-Dichloroethane	BQL	1.00	1	7/15/2009
1,1-Dichloroethene	BQL	1.00	1	7/15/2009
1,2-Dichloroethane	BQL	1.00	1	7/15/2009
cis-1,2-Dichloroethene	BQL	1.00	1	7/15/2009
trans-1,2-dichloroethene	BQL	1.00	1	7/15/2009
1,2-Dichloropropane	BQL	1.00	1	7/15/2009
1,3-Dichloropropane	BQL	1.00	1	7/15/2009
2,2-Dichloropropane	BQL	1.00	1	7/15/2009
1,1-Dichloropropene	BQL	1.00	1	7/15/2009
cis-1,3-Dichloropropene	BQL	1.00	1	7/15/2009
trans-1,3-Dichloropropene	BQL	1.00	1	7/15/2009
Dichlorodifluoromethane	BQL	5.00	1	7/15/2009
Diisopropyl ether (DIPE)	BQL	1.00	1	7/15/2009
Ethylbenzene	BQL	1.00	1	7/15/2009
Hexachlorobutadiene	BQL	1.00	1	7/15/2009
2-Hexanone	BQL	5.00	1	7/15/2009
Iodomethane	BQL	1.00	1	7/15/2009
Isopropylbenzene	**1.56**	1.00	1	7/15/2009

SGS North America, Inc.

Results for Volatiles
by GCMS 8260B

Client Sample ID: W-5
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-7A
Lab Project ID: G161-2834

Analyzed By: CLP
Date Collected: 7/9/2009 13:41
Date Received: 7/10/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
4-Isopropyltoluene	BQL	1.00	1	7/15/2009
Methylene chloride	BQL	5.00	1	7/15/2009
4-Methyl-2-pentanone	BQL	5.00	1	7/15/2009
Methyl-tert-butyl ether (MTBE)	BQL	1.00	1	7/15/2009
Naphthalene	BQL	1.00	1	7/15/2009
n-Propyl benzene	**1.26**	1.00	1	7/15/2009
Styrene	BQL	1.00	1	7/15/2009
1,1,1,2-Tetrachloroethane	BQL	1.00	1	7/15/2009
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/15/2009
Tetrachloroethene	BQL	1.00	1	7/15/2009
Toluene	BQL	1.00	1	7/15/2009
1,2,3-Trichlorobenzene	BQL	1.00	1	7/15/2009
1,2,4-Trichlorobenzene	BQL	1.00	1	7/15/2009
Trichloroethene	BQL	1.00	1	7/15/2009
1,1,1-Trichloroethane	BQL	1.00	1	7/15/2009
1,1,2-Trichloroethane	BQL	1.00	1	7/15/2009
Trichlorofluoromethane	BQL	1.00	1	7/15/2009
1,2,3-Trichloropropane	BQL	1.00	1	7/15/2009
1,2,4-Trimethylbenzene	BQL	1.00	1	7/15/2009
1,3,5-Trimethylbenzene	BQL	1.00	1	7/15/2009
Vinyl chloride	BQL	1.00	1	7/15/2009
m-,p-Xylene	BQL	2.00	1	7/15/2009
o-Xylene	BQL	1.00	1	7/15/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.3	103
Toluene-d8	10	11.1	111
4-Bromofluorobenzene	10	9.13	91

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

SGS North America, Inc.

Results for Metals

Client Sample ID:	GW-1	Analyzed By:	PSW
Client Project ID:	CF Soccer	Date Collected:	7/9/2009 13:00
Lab Sample ID:	G161-2834-1	Date Received:	7/10/2009
Lab Project ID:	G161-2834	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14618 14624		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Antimony	BQL	0.0400	1	MG/L	6010B	7/14/2009
Arsenic	BQL	0.0100	1	MG/L	6010B	7/14/2009
Beryllium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Cadmium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Chromium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Copper	BQL	0.0100	1	MG/L	6010B	7/14/2009
Lead	BQL	0.0100	1	MG/L	6010B	7/14/2009
Mercury	BQL	0.000285	1	MG/L	7470	7/13/2009
Nickel	BQL	0.0100	1	MG/L	6010B	7/14/2009
Selenium	BQL	0.0200	1	MG/L	6010B	7/14/2009
Silver	BQL	0.0100	1	MG/L	6010B	7/14/2009
Thallium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Zinc	BQL	0.0200	1	MG/L	6010B	7/14/2009

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

SGS North America, Inc.

Results for Metals

Client Sample ID:	GW-2	Analyzed By:	PSW
Client Project ID:	CF Soccer	Date Collected:	7/9/2009 10:30
Lab Sample ID:	G161-2834-2	Date Received:	7/10/2009
Lab Project ID:	G161-2834	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14618 14624		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Antimony	BQL	0.0400	1	MG/L	6010B	7/14/2009
Arsenic	BQL	0.0100	1	MG/L	6010B	7/14/2009
Beryllium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Cadmium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Chromium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Copper	BQL	0.0100	1	MG/L	6010B	7/14/2009
Lead	BQL	0.0100	1	MG/L	6010B	7/14/2009
Mercury	BQL	0.000285	1	MG/L	7470	7/13/2009
Nickel	BQL	0.0100	1	MG/L	6010B	7/14/2009
Selenium	BQL	0.0200	1	MG/L	6010B	7/14/2009
Silver	BQL	0.0100	1	MG/L	6010B	7/14/2009
Thallium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Zinc	BQL	0.0200	1	MG/L	6010B	7/14/2009

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

SGS North America, Inc.

Results for Metals

Client Sample ID:	GW-3	Analyzed By:	PSW
Client Project ID:	CF Soccer	Date Collected:	7/9/2009 10:25
Lab Sample ID:	G161-2834-3	Date Received:	7/10/2009
Lab Project ID:	G161-2834	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14618 14624		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Antimony	BQL	0.0400	1	MG/L	6010B	7/14/2009
Arsenic	BQL	0.0100	1	MG/L	6010B	7/14/2009
Beryllium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Cadmium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Chromium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Copper	**0.0160**	0.0100	1	MG/L	6010B	7/14/2009
Lead	BQL	0.0100	1	MG/L	6010B	7/14/2009
Mercury	BQL	0.000285	1	MG/L	7470	7/13/2009
Nickel	**0.113**	0.0100	1	MG/L	6010B	7/14/2009
Selenium	BQL	0.0200	1	MG/L	6010B	7/14/2009
Silver	BQL	0.0100	1	MG/L	6010B	7/14/2009
Thallium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Zinc	**11.4**	2.00	100	MG/L	6010B	7/14/2009

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____

METALS.XLS

SGS North America, Inc.

Results for Metals

Client Sample ID:	GW-4	Analyzed By:	PSW
Client Project ID:	CF Soccer	Date Collected:	7/9/2009 16:40
Lab Sample ID:	G161-2834-4	Date Received:	7/10/2009
Lab Project ID:	G161-2834	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14618 14624		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Antimony	BQL	0.0400	1	MG/L	6010B	7/14/2009
Arsenic	BQL	0.0100	1	MG/L	6010B	7/14/2009
Beryllium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Cadmium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Chromium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Copper	BQL	0.0100	1	MG/L	6010B	7/14/2009
Lead	BQL	0.0100	1	MG/L	6010B	7/14/2009
Mercury	BQL	0.000285	1	MG/L	7470	7/13/2009
Nickel	BQL	0.0100	1	MG/L	6010B	7/14/2009
Selenium	BQL	0.0200	1	MG/L	6010B	7/14/2009
Silver	BQL	0.0100	1	MG/L	6010B	7/14/2009
Thallium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Zinc	BQL	0.0200	1	MG/L	6010B	7/14/2009

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____

METALS.XLS

SGS North America, Inc.

Results for Metals

Client Sample ID:	W-1	Analyzed By:	PSW
Client Project ID:	CF Soccer	Date Collected:	7/9/2009 15:07
Lab Sample ID:	G161-2834-5	Date Received:	7/10/2009
Lab Project ID:	G161-2834	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14618 14624		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Antimony	BQL	0.0400	1	MG/L	6010B	7/14/2009
Arsenic	BQL	0.0100	1	MG/L	6010B	7/14/2009
Beryllium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Cadmium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Chromium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Copper	BQL	0.0100	1	MG/L	6010B	7/14/2009
Lead	BQL	0.0100	1	MG/L	6010B	7/14/2009
Mercury	BQL	0.000285	1	MG/L	7470	7/13/2009
Nickel	BQL	0.0100	1	MG/L	6010B	7/14/2009
Selenium	BQL	0.0200	1	MG/L	6010B	7/14/2009
Silver	BQL	0.0100	1	MG/L	6010B	7/14/2009
Thallium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Zinc	BQL	0.0200	1	MG/L	6010B	7/14/2009

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

SGS North America, Inc.

Results for Metals

Client Sample ID:	W-3	Analyzed By:	PSW
Client Project ID:	CF Soccer	Date Collected:	7/9/2009 09:05
Lab Sample ID:	G161-2834-6	Date Received:	7/10/2009
Lab Project ID:	G161-2834	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14618 14624		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Antimony	BQL	0.0400	1	MG/L	6010B	7/14/2009
Arsenic	BQL	0.0100	1	MG/L	6010B	7/14/2009
Beryllium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Cadmium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Chromium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Copper	BQL	0.0100	1	MG/L	6010B	7/14/2009
Lead	BQL	0.0100	1	MG/L	6010B	7/14/2009
Mercury	BQL	0.000285	1	MG/L	7470	7/13/2009
Nickel	BQL	0.0100	1	MG/L	6010B	7/14/2009
Selenium	BQL	0.0200	1	MG/L	6010B	7/14/2009
Silver	BQL	0.0100	1	MG/L	6010B	7/14/2009
Thallium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Zinc	BQL	0.0200	1	MG/L	6010B	7/14/2009

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

SGS North America, Inc.

Results for Metals

Client Sample ID:	W-5	Analyzed By:	PSW
Client Project ID:	CF Soccer	Date Collected:	7/9/2009 13:41
Lab Sample ID:	G161-2834-7	Date Received:	7/10/2009
Lab Project ID:	G161-2834	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14618 14624		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Antimony	BQL	0.0400	1	MG/L	6010B	7/14/2009
Arsenic	BQL	0.0100	1	MG/L	6010B	7/14/2009
Beryllium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Cadmium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Chromium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Copper	BQL	0.0100	1	MG/L	6010B	7/14/2009
Lead	BQL	0.0100	1	MG/L	6010B	7/14/2009
Mercury	BQL	0.000285	1	MG/L	7470	7/13/2009
Nickel	BQL	0.0100	1	MG/L	6010B	7/14/2009
Selenium	BQL	0.0200	1	MG/L	6010B	7/14/2009
Silver	BQL	0.0100	1	MG/L	6010B	7/14/2009
Thallium	BQL	0.0100	1	MG/L	6010B	7/14/2009
Zinc	BQL	0.0200	1	MG/L	6010B	7/14/2009

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By:

METALS.XLS

SGS North America, Inc.

Results for Anions
by IC 300.0

Client Sample ID: GW-1
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-1G
Lab Project ID: G161-2834

Analyzed By: PSW
Date Collected: 7/9/2009 13:00
Date Received: 7/10/2009
Matrix: Water

Analyte	Result mg/L	RL mg/L	Dilution Factor	Date Analyzed
Chloride	**6.24**	3.00	10	7/13/2009

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: IC_WA.XLS

SGS North America, Inc.

Results for Anions
by IC 300.0

Client Sample ID:	GW-2	Analyzed By:	PSW
Client Project ID:	CF Soccer	Date Collected:	7/9/2009 10:30
Lab Sample ID:	G161-2834-2G	Date Received:	7/10/2009
Lab Project ID:	G161-2834	Matrix:	Water

Analyte	Result mg/L	RL mg/L	Dilution Factor	Date Analyzed
Chloride	**10.5**	3.00	10	7/13/2009

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: IC_WA.XLS

SGS North America, Inc.

Results for Anions
by IC 300.0

Client Sample ID:	GW-3	Analyzed By:	PSW
Client Project ID:	CF Soccer	Date Collected:	7/9/2009 10:25
Lab Sample ID:	G161-2834-3G	Date Received:	7/10/2009
Lab Project ID:	G161-2834	Matrix:	Water

Analyte	Result mg/L	RL mg/L	Dilution Factor	Date Analyzed
Chloride	**7.39**	0.300	1	7/13/2009

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____
IC_WA.XLS

SGS North America, Inc.

Results for Anions
by IC 300.0

Client Sample ID: GW-4
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-4G
Lab Project ID: G161-2834

Analyzed By: PSW
Date Collected: 7/9/2009 16:40
Date Received: 7/10/2009
Matrix: Water

Analyte	Result mg/L	RL mg/L	Dilution Factor	Date Analyzed
Chloride	**5.22**	3.00	10	7/13/2009

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: IC_WA.XLS

SGS North America, Inc.

Results for Anions
by IC 300.0

Client Sample ID: W-1
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-5G
Lab Project ID: G161-2834

Analyzed By: PSW
Date Collected: 7/9/2009 15:07
Date Received: 7/10/2009
Matrix: Water

Analyte	Result mg/L	RL mg/L	Dilution Factor	Date Analyzed
Chloride	**4.23**	0.300	1	7/13/2009

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____
IC_WA.XLS

SGS North America, Inc.

Results for Anions
by IC 300.0

Client Sample ID: W-3
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-6G
Lab Project ID: G161-2834

Analyzed By: PSW
Date Collected: 7/9/2009 09:05
Date Received: 7/10/2009
Matrix: Water

Analyte	Result mg/L	RL mg/L	Dilution Factor	Date Analyzed
Chloride	**3.35**	0.300	1	7/13/2009

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: IC_WA.XLS

SGS North America, Inc.

Results for Anions
by IC 300.0

Client Sample ID:	W-5	Analyzed By:	PSW
Client Project ID:	CF Soccer	Date Collected:	7/9/2009 13:41
Lab Sample ID:	G161-2834-7G	Date Received:	7/10/2009
Lab Project ID:	G161-2834	Matrix:	Water

Analyte	Result mg/L	RL mg/L	Dilution Factor	Date Analyzed
Chloride	**5.51**	3.00	10	7/13/2009

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____
IC_WA.XLS

SGS North America, Inc.

Results for TOC
by 9060A

Client Sample ID:	GW-1	Analyzed By:	AGD
Client Project ID:	CF Soccer	Date Collected:	7/9/2009 13:00
Lab Sample ID:	G161-2834-1I	Date Received:	7/10/2009
Lab Project ID:	G161-2834	Matrix:	Water

Analyte	Result MG/L	RL MG/L	Dilution Factor	Date Analyzed
Total Organic Carbon	14	0.5	1.0	07/15/09

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: TOC.XLS

SGS North America, Inc.

Results for TOC
by 9060A

Client Sample ID: GW-2
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-2I
Lab Project ID: G161-2834

Analyzed By: AGD
Date Collected: 7/9/2009 10:30
Date Received: 7/10/2009
Matrix: Water

Analyte	Result MG/L	RL MG/L	Dilution Factor	Date Analyzed
Total Organic Carbon	17.2	0.5	1.0	07/15/09

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: TOC.XLS

SGS North America, Inc.

Results for TOC
by 9060A

Client Sample ID:	GW-3	Analyzed By:	AGD
Client Project ID:	CF Soccer	Date Collected:	7/9/2009 10:25
Lab Sample ID:	G161-2834-3I	Date Received:	7/10/2009
Lab Project ID:	G161-2834	Matrix:	Water

Analyte	Result MG/L	RL MG/L	Dilution Factor	Date Analyzed
Total Organic Carbon	4.23	0.5	1.0	07/15/09

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: TOC XLS

SGS North America, Inc.

Results for TOC
by 9060A

Client Sample ID: GW-4
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-4I
Lab Project ID: G161-2834

Analyzed By: AGD
Date Collected: 7/9/2009 16:40
Date Received: 7/10/2009
Matrix: Water

Analyte	Result MG/L	RL MG/L	Dilution Factor	Date Analyzed
Total Organic Carbon	13.1	0.5	1.0	07/15/09

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: TOC.XLS

SGS North America, Inc.

Results for TOC
by 9060A

Client Sample ID: W-1
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-5I
Lab Project ID: G161-2834

Analyzed By: AGD
Date Collected: 7/9/2009 15:07
Date Received: 7/10/2009
Matrix: Water

Analyte	Result MG/L	RL MG/L	Dilution Factor	Date Analyzed
Total Organic Carbon	1.55	0.5	1.0	07/15/09

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____
TOC.XLS

SGS North America, Inc.

Results for TOC
by 9060A

Client Sample ID: W-3
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-6I
Lab Project ID: G161-2834

Analyzed By: AGD
Date Collected: 7/9/2009 9:05
Date Received: 7/10/2009
Matrix: Water

Analyte	Result MG/L	RL MG/L	Dilution Factor	Date Analyzed
Total Organic Carbon	0.529	0.5	1.0	07/15/09

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: TOC.XLS

SGS North America, Inc.

Results for TOC
by 9060A

Client Sample ID: W-5
Client Project ID: CF Soccer
Lab Sample ID: G161-2834-7I
Lab Project ID: G161-2834

Analyzed By: AGD
Date Collected: 7/9/2009 13:41
Date Received: 7/10/2009
Matrix: Water

Analyte	Result MG/L	RL MG/L	Dilution Factor	Date Analyzed
Total Organic Carbon	9.69	0.5	1.0	07/15/09

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: TOC.XLS

SGS North America, Inc.

elementOne

Element One Inc.
5022-C Wrightsville Ave.
Wilmington, NC 28403

Phone: 910 793-0128
Fax: 910 792-6853
e1lab@e1lab.com

FINAL REPORT OF ANALYSES

Element One Project ID 12802
July 15, 2009

SGS Wilmington
5500 Business Drive
Wilmington, NC 28405

Date Received 07/10/09
Time Received 1546
Received by LLB

Project Manager Barbara Hager
SGS Project G161-2834

Sample Matrix WW
Sample Type Grab

eOne ID	SGS ID	Parameter	Result	Unit	Dil	DL	Method	Date Sampled	Time Sampled	Date Analyzed
12802-1.1	GW-1	NO3+NO2-N	< 0.1	mg/L	2	0.1	EPA 300.0	07/09/09	1300	07/14/09
12802-1.2	GW-1	NH3-N	12.2	mg/L	1	0.25	SM4500D	07/09/09	1300	07/14/09
12802-1.3	GW-1	COD	52.1	mg/L	1.3	12.5	SM5220D	07/09/09	1300	07/13/09
12802-2.1	GW-2	NO3+NO2-N	< 0.1	mg/L	2	0.1	EPA 300.0	07/09/09	1030	07/14/09
12802-2.2	GW-2	NH3-N	42.7	mg/L	1	0.25	SM4500D	07/09/09	1030	07/14/09
12802-2.3	GW-2	COD	64.5	mg/L	1	12.5	SM5220D	07/09/09	1030	07/13/09
12802-3.1	GW-3	NO3+NO2-N	2.15	mg/L	2	0.1	EPA 300.0	07/09/09	1025	07/14/09
12802-3.2	GW-3	NH3-N	0.422	mg/L	1	0.25	SM4500D	07/09/09	1025	07/14/09
12802-3.3	GW-3	COD	13.7	mg/L	1	12.5	SM5220D	07/09/09	1025	07/13/09
12802-4.1	GW-4	NO3+NO2-N	< 0.1	mg/L	2	0.1	EPA 300.0	07/09/09	1640	07/14/09
12802-4.2	GW-4	NH3-N	11.1	mg/L	1	0.25	SM4500D	07/09/09	1640	07/14/09
12802-4.3	GW-4	COD	57.6	mg/L	1	12.5	SM5220D	07/09/09	1640	07/13/09

Ken Smith, Laboratory Director

SGS North America, Inc.

elementOne

Element One Inc.
5022-C Wrightsville Ave.
Wilmington, NC 28403

Phone: 910 793-0128
Fax: 910 792-6853
e1lab@e1lab.com

FINAL REPORT OF ANALYSES

Element One Project ID 12802
July 15, 2009

SGS Wilmington
5500 Business Drive
Wilmington, NC 28405

Date Received 07/10/09
Time Received 1546
Received by LLB

Project Manager Barbara Hager
SGS Project G161-2834

Sample Matrix WW
Sample Type Grab

eOne ID	SGS ID	Parameter	Result	Unit	Dil	DL	Method	Date Sampled	Time Sampled	Date Analyzed
12802-5.1	W-1	NO3+NO2-N	5.36	mg/L	5	0.1	EPA 300.0	07/09/09	1507	07/14/09
12802-5.2	W-1	NH3-N	0.380	mg/L	1	0.25	SM4500D	07/09/09	1507	07/14/09
12802-5.3	W-1	COD	< 12.5	mg/L	1	12.5	SM5220D	07/09/09	1507	07/13/09
12802-6.1	W-3	NO3+NO2-N	2.99	mg/L	2	0.1	EPA 300.0	07/09/09	0905	07/14/09
12802-6.2	W-3	NH3-N	< 0.25	mg/L	1	0.25	SM4500D	07/09/09	0905	07/14/09
12802-6.3	W-3	COD	< 12.5	mg/L	1	12.5	SM5220D	07/09/09	0905	07/13/09
12802-7.1	W-5	NO3+NO2-N	< 0.1	mg/L	2	0.1	EPA 300.0	07/09/09	1341	07/14/09
12802-7.2	W-5	NH3-N	11.0	mg/L	1	0.25	SM4500D	07/09/09	1341	07/14/09
12802-7.3	W-5	COD	39.1	mg/L	1	12.5	SM5220D	07/09/09	1341	07/13/09

Ken Smith, Laboratory Director

SGS

element1

CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

12802

Locations Nationwide
Alaska
Maryland
New Jersey
North Carolina
www.us.sgs.com

CLIENT: **SGS Wilmington**
CONTACT: **Barbara Hager** PHONE NO: **910.350.1903**
PROJECT: **G161-2834** SITE/PWSID#:
REPORTS TO: **barbara.hager@sgs.com**
INVOICE TO: QUOTE #: P.O. NUMBER:

SGS Reference #: G161-2834

page _____ of _____

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	Preserv. Used / SAMPLE TYPE C = COMP G = GRAB	nitrite+nitrate	ammonia	COD									REMARKS
	G161-2834-1	7.9.09	1300	water	3	GRAB	⊗	⊗	⊗									pH <2
	G161-2834-2	7.9.09	1030	water	3	GRAB	⊗	⊗	⊗									KI <.5
	G161-2834-3	7.9.09	1025	water	3	GRAB	⊗	⊗	⊗									
	G161-2834-4	7.9.09	1640	water	3	GRAB	⊗	⊗	⊗									
	G161-2834-5	7.9.09	1507	water	3	GRAB	⊗	⊗	⊗									
	G161-2834-6	7.9.09	905	water	3	GRAB	⊗	⊗	⊗									
	G161-2834-7	7.9.09	1341	water	3	GRAB	⊗	⊗	⊗									

Collected/Relinquished By: (1)	Date	Time	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 7/10/09	Time 1546	Received For Laboratory By: Lori Burton

Shipping Carrier:
Shipping Ticket No:
Samples Received Cold? YES NO
Temperature °C: 8.5
Special Deliverable Requirements:
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Requested Turnaround Time and-or Special Instructions:

SGS North America, Inc.

200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
3180 Peger Road Fairbanks, AK 99701 Tel: (907) 474-8656 Fax: (907) 474-9685
5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

SGS

CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide
- Alaska
- Ohio
- New Jersey
- West Virginia
- Hawaii
- Maryland
- North Carolina

www.us.sgs.com

091527

(1)

CLIENT: ECS carolinas

CONTACT: Lee Ann Jones PHONE NO:(910) 686 9114

PROJECT: CF soccer SITE/PWSID#:

REPORTS TO: Lee Ann ECS E-MAIL: FAX NO.:( )

INVOICE TO: ECS Lee Ann QUOTE # P.O. NUMBER

SGS Reference: G1161-2834

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP G=GRAB)	8260	PP Metals	nitrate+nitrite	ammonia	chloride	COD	TOC			REMARKS
						Preservatives Used										
						Analysis Required (3)										
1	GW-1	7/8/09	1300	W			X	X	X	X	X	X	X			
2	GW-2	7/9/09	10:30	↓			↓	↓	↓	↓	↓	↓	↓			
3	GW-3	7/10/09	10:25	↓			↓	↓	↓	↓	↓	↓	↓			
4	GW-4	7/8/09	16:40	↓			↓	↓	↓	↓	↓	↓	↓			
5	W-1	7/8/09	15:07	↓			↓	↓	↓	↓	↓	↓	↓			
6	W-3	7/10/09	9:05	↓			↓	↓	↓	↓	↓	↓	↓			
7	W-5	7/8/09	13:41	↓			↓	↓	↓	↓	↓	↓	↓			

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:	Date	Time
Lee ann Jones	7/10/09	11:08	[signature]	7/10/09	1108
Relinquished By: (2)	Date	Time	Received By:	Date	Time
Relinquished By: (3)	Date	Time	Received By:	Date	Time
Relinquished By: (4)	Date	Time	Received By:	Date	Time

(4)

Shipping Carrier:

Shipping Ticket No:

Special Deliverable Requirements:

Samples Received Cold? (Circle) YES NO

Temperature :C: 5.2°C, 5.5°C

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time:

☐ RUSH _____ Date Needed ☒ STD 5day

SGS North America Inc.