Remedial Investigation Report
Stillwater Boiler House Property
NYSDEC Site No. B00197
US Route 4 and Best Avenue
Town of Stillwater
Saratoga County, New York

VOLUME 7 of 7: Data Usability Summary Reports

February 2009

Chazen Project No. 30201.14

Prepared for:

Department of Environmental Conservation

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Remedial Investigation Report

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VOLUME 7 of 7: Data Usability Summary Reports

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Prepared by:

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DATA USABILITY SUMMARY REPORT

for

THE CHAZEN COMPANIES

20 Gurley Avenue

Troy, NY 12182

FORMER STILLWATER BOILER HOUSE
ID#B-001975-5
SDG:S3812
Sampled 6/28/04 - 6/29/04

SOIL SAMPLES for METALS

SB02 4-8	(S3812-1)
SB11 10-12	(S3812-2)
SB12 6-8	(S3812-3)
Sb19 4-8	(S3812-4)

DATA ASSESSMENT

An inorganics data package containing analytical results for four soil samples was received from The Chazen Companies on 21Sep04. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Stillwater Boiler House site (ID#B-00197-5), were identified by Chain of Custody documents and traceable through the work of CHEMTECH, the laboratory contracted for analysis. Analyses were performed using SW-846 methods 6010 and 7471. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 06/2000. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOW HW-2, Rev. 11, Jan. 1992, Evaluation of Metals Data for the Contract Laboratory Program) was used as a technical reference.

The selenium results reported from this group of samples have been qualified as estimations due a low CRDL recovery.

The antimony and cobalt results from this group of samples have been qualified as estimations due to low matrix spike recoveries.

The mercury results reported from this group of samples have been qualified as estimations because duplicate measurements of mercury demonstrated poor measurement precision.

CORRECTNESS AND USABILITY

The mercury results from this group of samples have been qualified as estimations because the holding time limitation was exceeded by two days.

Reported data should be considered technically defensible and completely usable in its present form. Reported concentrations that are felt to provide a usable estimation of the conditions being measured have been flagged "J". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be

guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 10/18/04

SAMPLE HISTORY

Sample holding times are calculated between the time of laboratory receipt (VTSR) and the time of analysis. Mercury samples must be analyzed within 26 days of receipt; the remaining metals within 180 days. Each sample delivery group, containing up to 20 samples, should include a field duplicate, a laboratory split duplicate, a matrix spiked sample, and a rinsate blank.

This sample delivery group contained four soil samples. The samples were collected from the Former Stillwater Boiler House site on 28Jun04 and 29Jun04. They were shipped to the laboratory 29Jun04. The shipment arrived, intact, on 30Jun04.

The samples were digested for mercury on 27Jul04 and for ICP metals on 29Jul04. Analyses for mercury were completed on 28Jul04. Determinations of ICP metals were completed on 29Jul04. Mercury results have been qualified as estimations because the holding time limitation was exceeded by two days.

CALIBRATIONS

Calibration curves are constructed, using certified materials, to define the linear range of each analytical instrument. Beyond this range, measurements cannot be made with confidence. The calibration curve is immediately tested by analyzing an initial calibration verification standard (ICV). Continuing verifications (CCV) must bracket each group of up to ten samples. ICV and CCV recoveries must meet established criteria.

ICP calibrations were performed with a blank and three standards. Calibrations for mercury were performed with a blank and five standards. The lowest mercury standard equaled CRDL. The mercury calibration curve demonstrated an acceptable degree of linearity.

Each instrument calibration was immediately verified by the analysis of an ICV standard. Continuing calibration checks were made following each group of 10 samples. Each calibration check that was used to bracket samples from this program satisfied the program acceptance criteria.

CONTRACT REQUIED DETECTION LIMIT STANARDS (CRDL)

To verify instrument linearity near CRDL, an ICP standard at a concentration of twice CRDL (CRI) is analyzed at the beginning and end of each analytical sequence. A standard equaling CRDL

(CRA) must be included in each atomic adsorption sequence. CRDL standards must produce a recovery between 80% and 120%.

The CRDL results reported by the laboratory included an unacceptable recovery of selenium (122%). Based on this indication of bias, the selenium results reported from this group of samples have been qualified as estimations.

It is noted that the laboratory did not analyze CRDL standards at the end of each analytical sequence. Although the requirements of the cited methods were satisfied, ASP protocol was not. Data has not been qualified due to this discrepancy. However, this issue should be brought to the laboratory's attention prior to the next sampling event.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Preparation blanks are carried through the digestion process with each group of samples to evaluate general laboratory technique. Calibration blanks are run periodically to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

An initial blank (ICB) was analyzed following the calibration in each analytical sequence. Additional blanks were analyzed after every ten samples (CCB) and at the end of each sequence. Preparation blanks were digested, prior to analysis, with each group of samples. Each laboratory prepared blank that was associated with samples from this program was free of analyte contamination exceeding CRDL.

INTERFERENCE CHECK SAMPLE (ICS)

ICS standards are analyzed at the beginning and end of each ICP analysis sequence to verify background and inter-element correction factors. The recoveries of specified analytes are measured in the presence of interfering concentrations of aluminum, calcium, magnesium and iron.

Interference check standards, ICSA and ICSAB, were included in each ICP analysis sequence. Each interference check standard that was used to bracket samples from this program produced recoveries within the range of acceptance, 80% - 120%.

It is noted that the laboratory did not analyze ICS standards at the end of each analytical sequence. Although the requirements

of the cited methods were satisfied, ASP protocol was not. Data has not been qualified due to this discrepancy. However, this issue should be brought to the laboratory's attention prior to the next sampling event.

PREDIGESTION SPIKE

The recovery of spike concentrations added to samples prior to digestion and analysis demonstrates measurement bias caused by sample matrix effects. Predigestion spikes must be recovered within control limits of 75% - 125%.

A sample from an unrelated delivery group was selected for matrix spiking. Each targeted analyte was added to two portions of this sample. With the exception of antimony (27%,28%) and cobalt (62%,61%), each of these additions was recovered successfully. Although unacceptable recoveries were also reported for aluminum, iron and manganese, this performance was not considered. The aluminum, iron and manganese concentrations in the unspiked sample exceeded four times the level of the spike. The antimony and cobalt results reported from this group of samples have been qualified as estimations.

It should be noted that spike recoveries reported from unrelated samples provide no insight to matrix affects that might bias measurements in program samples. ASP protocol requires that program samples be used for matrix spiking.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Laboratory split duplicates of unrelated samples were processed with this group of samples. These duplicate pairs demonstrated an acceptable level of measurement precision for every targeted analyte except mercury (23% RPD). Again, it is noted that this performance provides little insight to the interferences affecting samples from this program. Mercury results have been qualified as estimations.

Field split duplicates were not included in this delivery group.

LABORATORY CONTROL STANDARD

Laboratory control samples are prepared by adding analytes to clean sand or reagent water. Analyte concentrations are then determined without interferences caused by sample matrix effects.

A solid LCS standard was digested and analyzed with this group of samples. Acceptable recoveries were reported for each targeted analyte.

ICP SERIAL SILUTION SAMPLE

Possible matrix effects are verified by the process of serial dilutions. Samples are diluted 1:5 to reduce matrix contributions that might bias measurements. The original sample result, and the corrected concentration of the diluted sample are compared. Sample data is qualified if the original concentrations are not recovered within 10%. Analytes with initial concentrations below 50 times IDL are not considered.

A sample from an unrelated delivery group was prepared as a serial dilution. None of the analytes present in the undiluted aliquot of these samples, at a concentration exceeding 50 times IDL, differed from the diluted result by more than 10%. The program acceptance criteria was satisfied. It is noted that this performance may not reflect interferences associated with the matrix of samples from this program.

SUMMARY OF QUALIFIED DATA

Former Stillwater Boiler House site

Sampled 6/28/04 - 6/29/04

		HOLD TIME MERCURY	SPIKES ANTIMONY	SPIKES COBALT	DUPES MERCURY	CRDL SELENIUM
SB02 4-8	(S3812-1)	0.06J	UJ	9.97J	0.06J	2.79J
SB11 10-12	(S3812-2)	0.06J	UJ	7.91J	0.06J	3.72J
SB12 6-8	(S3812-3)	0.02J	UJ	20.4J	0.02J	3.59J
Sb19 4-8	(S3812-4)	0.12J	3.59J	12.9J	0.12J	3.06J

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Chazen Companies**	**Date Collected:**	**6/28/2004**
Project:		**Date Received:**	**7/27/2004**
Client Sample ID:	**SB-024-8**	**SDG No.:**	**S3812**
Lab Sample ID:	**S3812-01**	**Matrix:**	**SOIL**
		% Solids:	**79.20**

CAS No.	Analyte	Conc.	Units	Qualifier	DL	Dilution	Date Prep	Date Anal.	Method
7429-90-5	Aluminum	13300	mg/Kg		0.786	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-36-0	Antimony	0.704 UJ	mg/Kg	~~U~~ ~~N~~	0.704	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-38-2	Arsenic	12.5	mg/Kg		0.296	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-39-3	Barium	185	mg/Kg		0.028	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-41-7	Beryllium	0.775	mg/Kg		0.005	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-43-9	Cadmium	3.020	mg/Kg		0.058	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-70-2	Calcium	2180	mg/Kg		0.438	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-47-3	Chromium	16.5	mg/Kg		0.119	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-48-4	Cobalt	9.970	mg/Kg	J ~~N~~	0.099	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-50-8	Copper	35.6	mg/Kg		0.143	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-89-6	Iron	33600	mg/Kg		2.200	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-92-1	Lead	19.5	mg/Kg		0.129	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-95-4	Magnesium	4240	mg/Kg		0.020	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-96-5	Manganese	275	mg/Kg		1.000	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-97-6	Mercury	0.06	mg/Kg	J	0.01	1	7/27/200	7/28/2004	EPA SW-846 7471
7440-02-0	Nickel	28.3	mg/Kg		0.189	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-09-7	Potassium	1130	mg/Kg	N	4.110	1	7/29/200	7/29/2004	EPA SW-846 6010
7782-49-2	Selenium	2.790	mg/Kg	J	0.391	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-22-4	Silver	0.939	mg/Kg	J	0.131	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-23-5	Sodium	132	mg/Kg	J	46.5	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-28-0	Thallium	0.413	mg/Kg	U	0.413	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-62-2	Vanadium	21.0	mg/Kg		0.128	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-66-6	Zinc	67.9	mg/Kg		0.070	1	7/29/200	7/29/2004	EPA SW-846 6010

Comments: _____

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Report of Analysis

Client:	**Chazen Companies**	**Date Collected:**	**6/29/2004**
Project:		**Date Received:**	**7/27/2004**
Client Sample ID:	**SB-1110-12**	**SDG No.:**	**S3812**
Lab Sample ID:	**S3812-02**	**Matrix:**	**SOIL**
		% Solids:	**83.80**

CAS No.	Analyte	Conc.	Units	Qualifier	DL	Dilution	Date Prep	Date Anal.	Method
7429-90-5	Aluminum	11300	mg/Kg		0.751	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-36-0	Antimony	0.672 UJ	mg/Kg	~~U~~ ~~N~~	0.672	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-38-2	Arsenic	15.2	mg/Kg		0.283	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-39-3	Barium	83.5	mg/Kg		0.026	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-41-7	Beryllium	0.603	mg/Kg		0.005	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-43-9	Cadmium	4.380	mg/Kg		0.055	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-70-2	Calcium	1660	mg/Kg		0.418	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-47-3	Chromium	17.7	mg/Kg		0.113	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-48-4	Cobalt	7.910	mg/Kg	J ~~N~~	0.094	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-50-8	Copper	41.3	mg/Kg		0.136	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-89-6	Iron	45900	mg/Kg		2.100	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-92-1	Lead	25.4	mg/Kg		0.123	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-95-4	Magnesium	3850	mg/Kg		0.019	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-96-5	Manganese	441	mg/Kg		0.957	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-97-6	Mercury	0.06	mg/Kg	J	0.01	1	7/27/200	7/28/2004	EPA SW-846 7471
7440-02-0	Nickel	17.1	mg/Kg		0.180	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-09-7	Potassium	1110	mg/Kg	N	3.920	1	7/29/200	7/29/2004	EPA SW-846 6010
7782-49-2	Selenium	3.720	mg/Kg	J	0.374	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-22-4	Silver	2.050	mg/Kg		0.125	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-23-5	Sodium	44.4	mg/Kg	U	44.4	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-28-0	Thallium	0.394	mg/Kg	U	0.394	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-62-2	Vanadium	19.5	mg/Kg		0.122	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-66-6	Zinc	70.3	mg/Kg		0.067	1	7/29/200	7/29/2004	EPA SW-846 6010

Comments: _____

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Report of Analysis

Client:	**Chazen Companies**	**Date Collected:**	**6/29/2004**
Project:		**Date Received:**	**7/27/2004**
Client Sample ID:	**SB-126-8**	**SDG No.:**	**S3812**
Lab Sample ID:	**S3812-03**	**Matrix:**	**SOIL**
		% Solids:	**86.70**

CAS No.	Analyte	Conc.	Units	Qualifier	DL	Dilution	Date Prep	Date Anal.	Method
7429-90-5	Aluminum	11800	mg/Kg		0.725	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-36-0	Antimony	0.649 UJ	mg/Kg	~~U~~ ~~N~~	0.649	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-38-2	Arsenic	14.4	mg/Kg		0.273	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-39-3	Barium	68.3	mg/Kg		0.025	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-41-7	Beryllium	0.660	mg/Kg		0.005	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-43-9	Cadmium	4.720	mg/Kg		0.053	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-70-2	Calcium	5930	mg/Kg		0.404	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-47-3	Chromium	16.8	mg/Kg		0.110	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-48-4	Cobalt	20.4	mg/Kg	J ~~N~~	0.091	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-50-8	Copper	511	mg/Kg		0.131	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-89-6	Iron	39700	mg/Kg		2.030	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-92-1	Lead	78.3	mg/Kg		0.119	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-95-4	Magnesium	5890	mg/Kg		0.018	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-96-5	Manganese	793	mg/Kg		0.925	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-97-6	Mercury	0.02	mg/Kg	J	0.01	1	7/27/200	7/28/2004	EPA SW-846 7471
7440-02-0	Nickel	40.0	mg/Kg		0.174	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-09-7	Potassium	1390	mg/Kg	N	3.790	1	7/29/200	7/29/2004	EPA SW-846 6010
7782-49-2	Selenium	3.590	mg/Kg	J	0.361	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-22-4	Silver	0.774	mg/Kg	J	0.121	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-23-5	Sodium	96.8	mg/Kg	J	42.9	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-28-0	Thallium	0.381	mg/Kg	U	0.381	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-62-2	Vanadium	18.4	mg/Kg		0.118	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-66-6	Zinc	246	mg/Kg		0.065	1	7/29/200	7/29/2004	EPA SW-846 6010

Comments: _____

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Report of Analysis

Client:	**Chazen Companies**	**Date Collected:**	**6/29/2004**
Project:		**Date Received:**	**7/27/2004**
Client Sample ID:	**SB-194-8**	**SDG No.:**	**S3812**
Lab Sample ID:	**S3812-04**	**Matrix:**	**SOIL**
		% Solids:	**68.70**

CAS No.	Analyte	Conc.	Units	Qualifier	DL	Dilution	Date Prep	Date Anal.	Method
7429-90-5	Aluminum	11200	mg/Kg		0.916	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-36-0	Antimony	3.590 J	mg/Kg	~~J~~ ~~N~~	0.820	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-38-2	Arsenic	11.4	mg/Kg		0.345	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-39-3	Barium	220	mg/Kg		0.032	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-41-7	Beryllium	0.690	mg/Kg	J	0.006	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-43-9	Cadmium	3.790	mg/Kg		0.067	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-70-2	Calcium	10500	mg/Kg		0.509	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-47-3	Chromium	21.0	mg/Kg		0.138	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-48-4	Cobalt	12.9	mg/Kg J	~~N~~	0.115	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-50-8	Copper	108	mg/Kg		0.166	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-89-6	Iron	36600	mg/Kg		2.560	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-92-1	Lead	341	mg/Kg		0.150	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-95-4	Magnesium	5070	mg/Kg		0.023	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-96-5	Manganese	372	mg/Kg		1.170	1	7/29/200	7/29/2004	EPA SW-846 6010
7439-97-6	Mercury	0.12	mg/Kg J		0.01	1	7/27/200	7/28/2004	EPA SW-846 7471
7440-02-0	Nickel	26.0	mg/Kg		0.220	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-09-7	Potassium	1620	mg/Kg	N	4.790	1	7/29/200	7/29/2004	EPA SW-846 6010
7782-49-2	Selenium	3.060	mg/Kg J		0.456	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-22-4	Silver	1.260	mg/Kg	J	0.153	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-23-5	Sodium	210	mg/Kg	J	54.1	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-28-0	Thallium	0.480	mg/Kg	U	0.480	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-62-2	Vanadium	25.0	mg/Kg		0.148	1	7/29/200	7/29/2004	EPA SW-846 6010
7440-66-6	Zinc	487	mg/Kg		0.082	1	7/29/200	7/29/2004	EPA SW-846 6010

Comments: _____

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01									
	Aluminum	2475.10	2482.0	99.7	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Antimony	983.90	992.0	99.2	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Arsenic	980.00	996.0	98.4	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Barium	509.79	502.0	101.6	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Beryllium	476.54	493.0	96.7	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Cadmium	505.94	494.0	102.4	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Calcium	10192.44	10180.0	100.1	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Chromium	495.51	490.0	101.1	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Cobalt	511.10	496.0	103.0	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Copper	482.45	490.0	98.5	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Iron	4960.66	5107.0	97.1	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Lead	997.53	996.0	100.2	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Magnesium	5994.18	6003.0	99.9	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Manganese	509.24	495.0	102.9	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Mercury	4.08	4.1	99.5	90.0 - 110.0	CV	7/28/2004	13:08	072804C
	Nickel	505.02	492.0	102.6	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Potassium	10237.96	10008.0	102.3	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Selenium	1015.46	1005.0	101.0	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Silver	472.01	495.0	95.4	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Sodium	9807.16	10039.0	97.7	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Thallium	970.94	1027.0	94.5	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Vanadium	511.24	501.0	102.0	90.0 - 110.0	P	7/29/2004	09:46	P107294
	Zinc	1044.46	1000.0	104.4	90.0 - 110.0	P	7/29/2004	09:46	P107294

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04									
	Aluminum	9854.52	10000.0	98.5	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Antimony	4910.56	5000.0	98.2	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Arsenic	4997.28	5000.0	99.9	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Barium	10148.95	10000.0	101.5	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Beryllium	244.54	250.0	97.8	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Cadmium	2462.71	2500.0	98.5	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Calcium	24593.35	25000.0	98.4	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Chromium	968.48	1000.0	96.8	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Cobalt	2416.00	2500.0	96.6	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Copper	1200.26	1250.0	96.0	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Iron	4773.24	5000.0	95.5	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Lead	4843.82	5000.0	96.9	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Magnesium	24334.06	25000.0	97.3	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Manganese	2410.60	2500.0	96.4	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Mercury	4.92	5.0	98.4	90.0 - 110.0	CV	7/28/2004	14:39	072804C
	Nickel	2448.02	2500.0	97.9	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Potassium	26202.53	25000.0	104.8	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Selenium	5020.27	5000.0	100.4	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Silver	1255.72	1250.0	100.5	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Sodium	25458.53	25000.0	101.8	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Thallium	5012.09	5000.0	100.2	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Vanadium	2392.18	2500.0	95.7	90.0 - 110.0	P	7/29/2004	11:51	P107294
	Zinc	2458.92	2500.0	98.4	90.0 - 110.0	P	7/29/2004	11:51	P107294

Metals
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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05									
	Aluminum	10630.05	10000.0	106.3	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Antimony	5300.55	5000.0	106.0	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Arsenic	5395.07	5000.0	107.9	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Barium	10674.47	10000.0	106.7	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Beryllium	266.19	250.0	106.5	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Cadmium	2676.87	2500.0	107.1	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Calcium	26791.40	25000.0	107.2	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Chromium	1064.80	1000.0	106.5	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Cobalt	2653.82	2500.0	106.2	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Copper	1313.46	1250.0	105.1	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Iron	5364.44	5000.0	107.3	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Lead	5310.24	5000.0	106.2	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Magnesium	26470.18	25000.0	105.9	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Manganese	2655.25	2500.0	106.2	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Mercury	4.93	5.0	98.6	90.0 - 110.0	CV	7/28/2004	15:09	072804C
	Nickel	2668.21	2500.0	106.7	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Potassium	27431.21	25000.0	109.7	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Selenium	5458.26	5000.0	109.2	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Silver	1337.47	1250.0	107.0	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Sodium	26922.19	25000.0	107.7	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Thallium	5363.28	5000.0	107.3	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Vanadium	2644.52	2500.0	105.8	90.0 - 110.0	P	7/29/2004	12:26	P107294
	Zinc	2685.31	2500.0	107.4	90.0 - 110.0	P	7/29/2004	12:26	P107294

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06									
	Aluminum	9692.40	10000.0	96.9	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Antimony	4874.13	5000.0	97.5	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Arsenic	4991.30	5000.0	99.8	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Barium	10116.19	10000.0	101.2	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Beryllium	240.72	250.0	96.3	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Cadmium	2427.84	2500.0	97.1	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Calcium	24004.27	25000.0	96.0	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Chromium	946.82	1000.0	94.7	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Cobalt	2361.96	2500.0	94.5	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Copper	1183.84	1250.0	94.7	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Iron	4547.34	5000.0	90.9	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Lead	4763.54	5000.0	95.3	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Magnesium	23990.50	25000.0	96.0	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Manganese	2355.19	2500.0	94.2	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Mercury	4.90	5.0	98.0	90.0 - 110.0	CV	7/28/2004	15:40	072804C
	Nickel	2397.56	2500.0	95.9	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Potassium	25835.19	25000.0	103.3	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Selenium	5012.60	5000.0	100.3	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Silver	1244.98	1250.0	99.6	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Sodium	25494.13	25000.0	102.0	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Thallium	5011.80	5000.0	100.2	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Vanadium	2344.35	2500.0	93.8	90.0 - 110.0	P	7/29/2004	12:58	P107294
	Zinc	2404.47	2500.0	96.2	90.0 - 110.0	P	7/29/2004	12:58	P107294

Metals
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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07									
	Aluminum	9684.70	10000.0	96.8	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Antimony	4883.66	5000.0	97.7	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Arsenic	5010.96	5000.0	100.2	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Barium	10176.51	10000.0	101.8	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Beryllium	240.58	250.0	96.2	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Cadmium	2428.84	2500.0	97.2	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Calcium	23970.81	25000.0	95.9	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Chromium	940.90	1000.0	94.1	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Cobalt	2338.60	2500.0	93.5	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Copper	1170.16	1250.0	93.6	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Iron	4692.66	5000.0	93.9	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Lead	4741.49	5000.0	94.8	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Magnesium	23874.03	25000.0	95.5	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Manganese	2322.80	2500.0	92.9	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Mercury	4.94	5.0	98.8	90.0 - 110.0	CV	7/28/2004	15:50	072804C
	Nickel	2402.92	2500.0	96.1	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Potassium	23643.45	25000.0	94.6	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Selenium	4982.10	5000.0	99.6	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Silver	1269.60	1250.0	101.6	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Sodium	23531.27	25000.0	94.1	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Thallium	5081.38	5000.0	101.6	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Vanadium	2315.77	2500.0	92.6	90.0 - 110.0	P	7/29/2004	13:34	P107294
	Zinc	2396.30	2500.0	95.9	90.0 - 110.0	P	7/29/2004	13:34	P107294

Metals
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CRDL STANDARD FOR AA & ICP

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

AA CRDL Standard Source:

ICP CRDL Standard Source: INOR-VEN

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01									
	Aluminum	373.06	400.0	93.3	75 - 125	P	7/29/2004	09:53	P107294
	Antimony	117.36	120.0	97.8	75 - 125	P	7/29/2004	09:53	P107294
	Arsenic	17.34	20.0	86.7	75 - 125	P	7/29/2004	09:53	P107294
	Barium	373.93	400.0	93.5	75 - 125	P	7/29/2004	09:53	P107294
	Beryllium	10.02	10.0	100.2	75 - 125	P	7/29/2004	09:53	P107294
	Cadmium	9.44	10.0	94.4	75 - 125	P	7/29/2004	09:53	P107294
	Calcium	9397.20	10000.0	94.0	75 - 125	P	7/29/2004	09:53	P107294
	Chromium	19.88	20.0	99.4	75 - 125	P	7/29/2004	09:53	P107294
	Cobalt	99.56	100.0	99.6	75 - 125	P	7/29/2004	09:53	P107294
	Copper	47.06	50.0	94.1	75 - 125	P	7/29/2004	09:53	P107294
	Iron	192.220	200.0	96.11	75 - 125	P	7/29/2004	09:53	P107294
	Lead	6.14	6.0	102.3	75 - 125	P	7/29/2004	09:53	P107294
	Magnesium	9384.91	10000.0	93.8	75 - 125	P	7/29/2004	09:53	P107294
	Manganese	30.30	30.0	101.0	75 - 125	P	7/29/2004	09:53	P107294
	Mercury	0.16	0.2	80.0	0 - 200	CV	7/28/2004	13:17	072804C
	Nickel	82.70	80.0	103.4	75 - 125	P	7/29/2004	09:53	P107294
	Selenium	12.22	10.0	122.2	75 - 125	P	7/29/2004	09:53	P107294
	Silver	20.04	20.0	100.2	75 - 125	P	7/29/2004	09:53	P107294
	Thallium	15.91	20.0	79.6	75 - 125	P	7/29/2004	09:53	P107294
	Vanadium	100.82	100.0	100.8	75 - 125	P	7/29/2004	09:53	P107294
	Zinc	40.64	40.0	101.6	75 - 125	P	7/29/2004	09:53	P107294

Metals
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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
ICB01										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/29/2004	09:49	P107294
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/29/2004	09:49	P107294
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/29/2004	09:49	P107294
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/29/2004	09:49	P107294
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/29/2004	09:49	P107294
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/29/2004	09:49	P107294
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/29/2004	09:49	P107294
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/29/2004	09:49	P107294
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/29/2004	09:49	P107294
	Copper	0.7	+/-25.0	U	0.7	25.0	P	7/29/2004	09:49	P107294
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/29/2004	09:49	P107294
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/29/2004	09:49	P107294
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/29/2004	09:49	P107294
	Manganese	-0.5	+/-15.0	J	0.2	15.0	P	7/29/2004	09:49	P107294
	Mercury	-0.033	+/-0.200	J	0.006	0.200	CV	7/28/2004	13:10	072804C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/29/2004	09:49	P107294
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/29/2004	09:49	P107294
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/29/2004	09:49	P107294
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/29/2004	09:49	P107294
	Sodium	189.5	+/-5000.0	U	189.5	5000.0	P	7/29/2004	09:49	P107294
	Thallium	7.0	+/-10.0	J	5.8	10.0	P	7/29/2004	09:49	P107294
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/29/2004	09:49	P107294
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/29/2004	09:49	P107294

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB04										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/29/2004	11:53	P107294
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/29/2004	11:53	P107294
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/29/2004	11:53	P107294
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/29/2004	11:53	P107294
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/29/2004	11:53	P107294
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/29/2004	11:53	P107294
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/29/2004	11:53	P107294
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/29/2004	11:53	P107294
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/29/2004	11:53	P107294
	Copper	-1.0	+/-25.0	J	0.7	25.0	P	7/29/2004	11:53	P107294
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/29/2004	11:53	P107294
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/29/2004	11:53	P107294
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/29/2004	11:53	P107294
	Manganese	0.2	+/-15.0	U	0.2	15.0	P	7/29/2004	11:53	P107294
	Mercury	-0.010	+/-0.200	J	0.006	0.200	CV	7/28/2004	14:41	072804C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/29/2004	11:53	P107294
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/29/2004	11:53	P107294
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/29/2004	11:53	P107294
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/29/2004	11:53	P107294
	Sodium	-269.5	+/-5000.0	J	189.5	5000.0	P	7/29/2004	11:53	P107294
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/29/2004	11:53	P107294
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/29/2004	11:53	P107294
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/29/2004	11:53	P107294

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB05										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/29/2004	12:29	P107294
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/29/2004	12:29	P107294
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/29/2004	12:29	P107294
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/29/2004	12:29	P107294
	Beryllium	1.1	+/-5.0	J	1.1	5.0	P	7/29/2004	12:29	P107294
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/29/2004	12:29	P107294
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/29/2004	12:29	P107294
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/29/2004	12:29	P107294
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/29/2004	12:29	P107294
	Copper	-0.8	+/-25.0	J	0.7	25.0	P	7/29/2004	12:29	P107294
	Iron	59.6	+/-100.0	J	29.0	100.0	P	7/29/2004	12:29	P107294
	Lead	1.9	+/-5.0	J	1.8	5.0	P	7/29/2004	12:29	P107294
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/29/2004	12:29	P107294
	Manganese	1.4	+/-15.0	J	0.2	15.0	P	7/29/2004	12:29	P107294
	Mercury	-0.041	+/-0.200	J	0.006	0.200	CV	7/28/2004	15:12	072804C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/29/2004	12:29	P107294
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/29/2004	12:29	P107294
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/29/2004	12:29	P107294
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/29/2004	12:29	P107294
	Sodium	-373.1	+/-5000.0	J	189.5	5000.0	P	7/29/2004	12:29	P107294
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/29/2004	12:29	P107294
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/29/2004	12:29	P107294
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/29/2004	12:29	P107294

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB06										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/29/2004	13:00	P107294
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/29/2004	13:00	P107294
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/29/2004	13:00	P107294
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/29/2004	13:00	P107294
	Beryllium	1.6	+/-5.0	J	1.1	5.0	P	7/29/2004	13:00	P107294
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/29/2004	13:00	P107294
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/29/2004	13:00	P107294
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/29/2004	13:00	P107294
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/29/2004	13:00	P107294
	Copper	-1.5	+/-25.0	J	0.7	25.0	P	7/29/2004	13:00	P107294
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/29/2004	13:00	P107294
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/29/2004	13:00	P107294
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/29/2004	13:00	P107294
	Manganese	0.2	+/-15.0	U	0.2	15.0	P	7/29/2004	13:00	P107294
	Mercury	-0.036	+/-0.200	J	0.006	0.200	CV	7/28/2004	15:42	072804C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/29/2004	13:00	P107294
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/29/2004	13:00	P107294
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/29/2004	13:00	P107294
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/29/2004	13:00	P107294
	Sodium	-346.1	+/-5000.0	J	189.5	5000.0	P	7/29/2004	13:00	P107294
	Thallium	8.5	+/-10.0	J	5.8	10.0	P	7/29/2004	13:00	P107294
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/29/2004	13:00	P107294
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/29/2004	13:00	P107294

Metals
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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB07										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/29/2004	13:37	P107294
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/29/2004	13:37	P107294
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/29/2004	13:37	P107294
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/29/2004	13:37	P107294
	Beryllium	1.9	+/-5.0	J	1.1	5.0	P	7/29/2004	13:37	P107294
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/29/2004	13:37	P107294
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/29/2004	13:37	P107294
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/29/2004	13:37	P107294
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/29/2004	13:37	P107294
	Copper	-1.8	+/-25.0	J	0.7	25.0	P	7/29/2004	13:37	P107294
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/29/2004	13:37	P107294
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/29/2004	13:37	P107294
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/29/2004	13:37	P107294
	Manganese	0.2	+/-15.0	U	0.2	15.0	P	7/29/2004	13:37	P107294
	Mercury	-0.046	+/-0.200	J	0.006	0.200	CV	7/28/2004	15:52	072804C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/29/2004	13:37	P107294
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/29/2004	13:37	P107294
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/29/2004	13:37	P107294
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/29/2004	13:37	P107294
	Sodium	-332.9	+/-5000.0	J	189.5	5000.0	P	7/29/2004	13:37	P107294
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/29/2004	13:37	P107294
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/29/2004	13:37	P107294
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/29/2004	13:37	P107294

Metals
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PREPARATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3812

Instrument: CV2

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	MDL mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB16537BL		**SOIL**		**Batch Number:**	**PB16537**			**Prep Date:**	**7/27/2004**	
	Mercury	0.001	<0.010	U	0.006	0.010	CV	7/28/2004	14:43	072804C
PB16570BL		**SOIL**		**Batch Number:**	**PB16570**			**Prep Date:**	**7/29/2004**	
	Aluminum	3.746	<20.000	J	0.629	20.000	P	7/29/2004	11:16	P107294
	Antimony	-0.286	<6.000	U	0.563	6.000	P	7/29/2004	11:16	P107294
	Arsenic	0.262	<1.000	J	0.237	1.000	P	7/29/2004	11:16	P107294
	Barium	-0.198	<20.000	J	0.022	20.000	P	7/29/2004	11:16	P107294
	Beryllium	0.044	<0.500	J	0.004	0.500	P	7/29/2004	11:16	P107294
	Cadmium	-0.068	<0.500	J	0.046	0.500	P	7/29/2004	11:16	P107294
	Calcium	-0.134	<500.000	U	0.350	500.000	P	7/29/2004	11:16	P107294
	Chromium	-0.028	<1.000	U	0.095	1.000	P	7/29/2004	11:16	P107294
	Cobalt	-0.050	<5.000	U	0.079	5.000	P	7/29/2004	11:16	P107294
	Copper	-0.056	<2.500	U	0.114	2.500	P	7/29/2004	11:16	P107294
	Iron	-2.890	<10.000	J	1.762	10.000	P	7/29/2004	11:16	P107294
	Lead	-0.028	<0.500	U	0.103	0.500	P	7/29/2004	11:16	P107294
	Magnesium	-0.488	<500.000	J	0.016	500.000	P	7/29/2004	11:16	P107294
	Manganese	-0.055	<1.500	U	0.802	1.500	P	7/29/2004	11:16	P107294
	Nickel	0.130	<4.000	U	0.151	4.000	P	7/29/2004	11:16	P107294
	Potassium	-1.915	<500.000	U	3.289	500.000	P	7/29/2004	11:16	P107294
	Selenium	0.126	<1.000	U	0.313	1.000	P	7/29/2004	11:16	P107294
	Silver	-0.052	<1.000	U	0.105	1.000	P	7/29/2004	11:16	P107294
	Sodium	-19.400	<500.000	U	37.167	500.000	P	7/29/2004	11:16	P107294
	Thallium	-0.084	<1.000	U	0.330	1.000	P	7/29/2004	11:16	P107294
	Vanadium	-0.020	<5.000	U	0.102	5.000	P	7/29/2004	11:16	P107294
	Zinc	-0.240	<2.000	J	0.056	2.000	P	7/29/2004	11:16	P107294

Metals
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INTERFERENCE CHECK SAMPLE

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

ICS Source: EPA **Instrument ID:** P1

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-A01								
	Aluminum	441000	519000	85.0	80 - 120	7/29/2004	10:00	P107294
	Antimony	-1.1			0 - 0	7/29/2004	10:00	P107294
	Arsenic	-2.3			0 - 0	7/29/2004	10:00	P107294
	Barium	-1.2			0 - 0	7/29/2004	10:00	P107294
	Beryllium	0.20			0 - 0	7/29/2004	10:00	P107294
	Cadmium	1.6			0 - 0	7/29/2004	10:00	P107294
	Calcium	399000	491900	81.1	80 - 120	7/29/2004	10:00	P107294
	Chromium	16.4	20	82.0	80 - 120	7/29/2004	10:00	P107294
	Cobalt	-0.22			0 - 0	7/29/2004	10:00	P107294
	Copper	2.9			0 - 0	7/29/2004	10:00	P107294
	Iron	158000	195000	81.0	80 - 120	7/29/2004	10:00	P107294
	Lead	2.8			0 - 0	7/29/2004	10:00	P107294
	Magnesium	471000	542000	86.9	80 - 120	7/29/2004	10:00	P107294
	Manganese	-5.0			0 - 0	7/29/2004	10:00	P107294
	Nickel	-1.6			0 - 0	7/29/2004	10:00	P107294
	Potassium	83.3			0 - 0	7/29/2004	10:00	P107294
	Selenium	9.9			0 - 0	7/29/2004	10:00	P107294
	Silver	4.7			0 - 0	7/29/2004	10:00	P107294
	Sodium	-124			0 - 0	7/29/2004	10:00	P107294
	Thallium	-2.0			0 - 0	7/29/2004	10:00	P107294
	Vanadium	-3.1			0 - 0	7/29/2004	10:00	P107294
	Zinc	-5.6			0 - 0	7/29/2004	10:00	P107294

Metals
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INTERFERENCE CHECK SAMPLE

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

ICS Source: EPA **Instrument ID:** P1

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-AB01								
	Aluminum	445000	514000	86.6	80 - 120	7/29/2004	10:06	P107294
	Antimony	520	518	100.4	80 - 120	7/29/2004	10:06	P107294
	Arsenic	84.2	102	82.5	80 - 120	7/29/2004	10:06	P107294
	Barium	461	456	101.1	80 - 120	7/29/2004	10:06	P107294
	Beryllium	397	458	86.7	80 - 120	7/29/2004	10:06	P107294
	Cadmium	814	910	89.5	80 - 120	7/29/2004	10:06	P107294
	Calcium	402000	489000	82.2	80 - 120	7/29/2004	10:06	P107294
	Chromium	407	455	89.5	80 - 120	7/29/2004	10:06	P107294
	Cobalt	409	430	95.1	80 - 120	7/29/2004	10:06	P107294
	Copper	445	506	87.9	80 - 120	7/29/2004	10:06	P107294
	Iron	161000	194600	82.7	80 - 120	7/29/2004	10:06	P107294
	Lead	43.5	49	88.8	80 - 120	7/29/2004	10:06	P107294
	Magnesium	473000	540600	87.5	80 - 120	7/29/2004	10:06	P107294
	Manganese	406	438	92.7	80 - 120	7/29/2004	10:06	P107294
	Nickel	787	846	93.0	80 - 120	7/29/2004	10:06	P107294
	Potassium	52.2			80 - 120	7/29/2004	10:06	P107294
	Selenium	53.7	47	114.3	80 - 120	7/29/2004	10:06	P107294
	Silver	193	196	98.5	80 - 120	7/29/2004	10:06	P107294
	Sodium	34.8			80 - 120	7/29/2004	10:06	P107294
	Thallium	81.1	89	91.1	80 - 120	7/29/2004	10:06	P107294
	Vanadium	411	452	90.9	80 - 120	7/29/2004	10:06	P107294
	Zinc	891	958	93.0	80 - 120	7/29/2004	10:06	P107294

Metals
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MATRIX SPIKE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Matrix: SOIL **Sample ID:** S3794-01 **Client ID:** CPO13-20001N0704S

Percent Solids for Sample: 86.30 **Spiked ID:** S3794-01S **Percent Solids for Spike Sample:** 86.30

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	80 - 120	18544.0300		12696.9700		231.75	2523.0		P
Antimony	mg/Kg	80 - 120	26.5162		0.6524	U	92.70	28.6	N	P
Arsenic	mg/Kg	80 - 120	87.8488		2.7283		92.70	91.8		P
Barium	mg/Kg	80 - 120	278.9832		39.4751		231.75	103.3		P
Beryllium	mg/Kg	80 - 120	20.1582		0.5093	J	23.17	84.8		P
Cadmium	mg/Kg	80 - 120	24.2630		1.3418		23.17	98.9		P
Calcium	mg/Kg	80 - 120	889.5886		385.2010	J	579.37	87.1		P
Chromium	mg/Kg	80 - 120	60.0035		11.0481		46.35	105.6		P
Cobalt	mg/Kg	80 - 120	47.5243		33.2822		23.17	61.5	N	P
Copper	mg/Kg	80 - 120	45.0174		8.8928		34.76	103.9		P
Iron	mg/Kg	80 - 120	17302.3700		15404.0700		347.62	546.1		P
Lead	mg/Kg	80 - 120	119.6060		7.8146		115.87	96.5		P
Magnesium	mg/Kg	80 - 120	891.2260		638.5261		231.75	109.0		P
Manganese	mg/Kg	80 - 120	425.0492		524.7618		23.17	-430.4		P
Nickel	mg/Kg	80 - 120	65.2938		7.0110		57.94	100.6		P
Potassium	mg/Kg	80 - 120	1680.7150		264.7880	J	1158.75	122.2	N	P
Selenium	mg/Kg	80 - 120	195.7277		1.3546		231.75	83.9		P
Silver	mg/Kg	80 - 120	9.5220		0.3268	J	8.69	105.8		P
Sodium	mg/Kg	80 - 120	397.5522	J	43.0672	U	347.62	114.4		P
Thallium	mg/Kg	80 - 120	215.6176		0.3824	U	231.75	93.0		P
Vanadium	mg/Kg	80 - 120	63.1871		24.5133		34.76	111.3		P
Zinc	mg/Kg	80 - 120	59.2265		33.2688		23.17	112.0		P

Metals

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MATRIX SPIKE DUPLICATE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Matrix: SOIL **Sample ID:** S3794-01 **Client ID:** CPQ13-20001N0704SD

Percent Solids for Sample: 86.30 **Spiked ID:** S3794-01SD **Percent Solids for Spike Sample:** 86.30

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	80 - 120	18459.2800		12696.9700		231.75	2486.4		P
Antimony	mg/Kg	80 - 120	25.9536		0.6524	U	92.70	28.0	N	P
Arsenic	mg/Kg	80 - 120	87.7126		2.7283		92.70	91.7		P
Barium	mg/Kg	80 - 120	278.4333		39.4751		231.75	103.1		P
Beryllium	mg/Kg	80 - 120	20.0869		0.5093	J	23.17	84.5		P
Cadmium	mg/Kg	80 - 120	24.1889		1.3418		23.17	98.6		P
Calcium	mg/Kg	80 - 120	886.6582		385.2010	J	579.37	86.6		P
Chromium	mg/Kg	80 - 120	59.5881		11.0481		46.35	104.7		P
Cobalt	mg/Kg	80 - 120	47.4293		33.2822		23.17	61.1	N	P
Copper	mg/Kg	80 - 120	44.6756		8.8928		34.76	102.9		P
Iron	mg/Kg	80 - 120	17169.0500		15404.0700		347.62	507.7		P
Lead	mg/Kg	80 - 120	119.1396		7.8146		115.87	96.1		P
Magnesium	mg/Kg	80 - 120	886.0481		638.5261		231.75	106.8		P
Manganese	mg/Kg	80 - 120	423.2254		524.7618		23.17	-438.2		P
Nickel	mg/Kg	80 - 120	65.0516		7.0110		57.94	100.2		P
Potassium	mg/Kg	80 - 120	1676.3750		264.7880	J	1158.75	121.8	N	P
Selenium	mg/Kg	80 - 120	196.1228		1.3546		231.75	84.0		P
Silver	mg/Kg	80 - 120	9.5423		0.3268	J	8.69	106.0		P
Sodium	mg/Kg	80 - 120	386.8621	J	43.0672	U	347.62	111.3		P
Thallium	mg/Kg	80 - 120	213.2607		0.3824	U	231.75	92.0		P
Vanadium	mg/Kg	80 - 120	62.9583		24.5133		34.76	110.6		P
Zinc	mg/Kg	80 - 120	59.1026		33.2688		23.17	111.5		P

Metals
- 5a -
MATRIX SPIKE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Matrix: SOIL **Sample ID:** S3786-05 **Client ID:** SDURKEE-SS4S

Percent Solids for Sample: 96.40 **Spiked ID:** S3786-06 **Percent Solids for Spike Sample:** 96.40

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.1976		0.0078	J	0.21	90.4		CV

Metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Matrix: SOIL **Sample ID:** S3786-05 **Client ID:** SDURKEE-SS4SD

Percent Solids for Sample: 96.40 **Spiked ID:** S3786-07 **Percent Solids for Spike Sample:** 96.40

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.1961		0.0078		0.21	89.7	✓	CV

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Matrix: SOIL **Level:** LOW **Client ID:** CPQ13-20001N0704A

Sample ID: S3794-01 **Spiked ID:** S3794-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75 - 125	222.76		6.60	U	800.0	27.8		P
Cobalt	ug/L	75 - 125	410.34		287.22		200.0	61.6		P
Potassium	ug/L	75 - 125	14622.64		2285.12	J	10000.0	123.4		P

Metals
- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Matrix: SOIL **Sample ID:** S3794-01 **Client ID:** CPQ13-20001N0704D

Percent Solids for Sample: 86.30 **Duplicate ID:** S3794-01D **Percent Solids for Duplicate:** 86.30

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg		12696.9700		12754.3200		0.5		P
Antimony	mg/Kg		0.6524	U	0.6524	U			P
Arsenic	mg/Kg	1.1587	2.7283		2.7584		1.1		P
Barium	mg/Kg	23.1750	39.4751		39.2868		0.5		P
Beryllium	mg/Kg		0.5093	J	0.4873	J	4.4		P
Cadmium	mg/Kg	0.5794	1.3418		1.2769		5.0		P
Calcium	mg/Kg		385.2010	J	386.4305	J	0.3		P
Chromium	mg/Kg		11.0481		11.1124		0.6		P
Cobalt	mg/Kg		33.2822		33.3766		0.3		P
Copper	mg/Kg	2.8969	8.8928		9.0562		1.8		P
Iron	mg/Kg		15404.0700		15704.7700		1.9		P
Lead	mg/Kg		7.8146		8.3111		6.2		P
Magnesium	mg/Kg	579.3743	638.5261		640.0533		0.2		P
Manganese	mg/Kg		524.7618		528.9681		0.8		P
Nickel	mg/Kg	4.6350	7.0110		7.0637		0.7		P
Potassium	mg/Kg		264.7880	J	263.9612	J	0.3		P
Selenium	mg/Kg		1.3546		1.0979	J	20.9		P
Silver	mg/Kg		0.3268	J	0.3685	J	12.0		P
Sodium	mg/Kg		43.0672	U	43.0672	U			P
Thallium	mg/Kg		0.3824	U	0.3824	U			P
Vanadium	mg/Kg	5.7937	24.5133		24.5805		0.3		P
Zinc	mg/Kg		33.2688		33.6176		1.0		P

Metals
- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Matrix: SOIL **Sample ID:** S3794-01S **Client ID:** CPQ13-20001N0704SD

Percent Solids for Sample: 86.30 **Duplicate ID:** S3794-01SD **Percent Solids for Duplicate:** 86.30

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg		18544.0300		18459.2800		0.5		P
Antimony	mg/Kg		26.5162		25.9536		2.1		P
Arsenic	mg/Kg		87.8488		87.7126		0.2		P
Barium	mg/Kg		278.9832		278.4333		0.2		P
Beryllium	mg/Kg		20.1582		20.0869		0.4		P
Cadmium	mg/Kg		24.2630		24.1889		0.3		P
Calcium	mg/Kg		889.5886		886.6582		0.3		P
Chromium	mg/Kg		60.0035		59.5881		0.7		P
Cobalt	mg/Kg		47.5243		47.4293		0.2		P
Copper	mg/Kg		45.0174		44.6756		0.8		P
Iron	mg/Kg		17302.3700		17169.0500		0.8		P
Lead	mg/Kg		119.6060		119.1396		0.4		P
Magnesium	mg/Kg		891.2260		886.0481		0.6		P
Manganese	mg/Kg		425.0492		423.2254		0.4		P
Nickel	mg/Kg		65.2938		65.0516		0.4		P
Potassium	mg/Kg		1680.7150		1676.3750		0.3		P
Selenium	mg/Kg		195.7277		196.1228		0.2		P
Silver	mg/Kg		9.5220		9.5423		0.2		P
Sodium	mg/Kg		397.5522	J	386.8621	J	2.7		P
Thallium	mg/Kg		215.6176		213.2607		1.1		P
Vanadium	mg/Kg		63.1871		62.9583		0.4		P
Zinc	mg/Kg		59.2265		59.1026		0.2		P

Metals
- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Matrix: SOIL **Sample ID:** S3786-05 **Client ID:** SDURKEE-SS4D

Percent Solids for Sample: 96.40 **Duplicate ID:** S3786-05D **Percent Solids for Duplicate:** 96.40

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg		0.0078	J	0.0062	J	22.9		CV

Metals
- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Matrix: SOIL **Sample ID:** S3786-06 **Client ID:** SDURKEE-SS4SD

Percent Solids for Sample: 96.40 **Duplicate ID:** S3786-07 **Percent Solids for Duplicate:** 96.40

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg		0.1976		0.1961		0.8		CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Aqueous LCS Source: **Solid LCS Source:** EPA-ICV

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB16537BS								
	Mercury	mg/Kg	0.200	0.207		103.5	0.2 - 0.2	CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Aqueous LCS Source: **Solid LCS Source:** EPA-ICV

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB16570BS								
	Aluminum	mg/Kg	200.0	198.6		99.3	160.0 - 240.0	P
	Antimony	mg/Kg	80.0	79.4		99.2	64.0 - 96.0	P
	Arsenic	mg/Kg	80.0	82.6		103.2	64.0 - 96.0	P
	Barium	mg/Kg	200.0	218.6		109.3	160.0 - 240.0	P
	Beryllium	mg/Kg	20.0	20.7		103.5	16.0 - 24.0	P
	Cadmium	mg/Kg	20.0	21.2		106.0	16.0 - 24.0	P
	Calcium	mg/Kg	500.0	520.3		104.1	400.0 - 600.0	P
	Chromium	mg/Kg	40.0	41.8		104.5	32.0 - 48.0	P
	Cobalt	mg/Kg	20.0	20.6		103.0	16.0 - 24.0	P
	Copper	mg/Kg	30.0	30.2		100.7	24.0 - 36.0	P
	Iron	mg/Kg	300.0	281.9		94.0	240.0 - 360.0	P
	Lead	mg/Kg	100.0	101.2		101.2	80.0 - 120.0	P
	Magnesium	mg/Kg	200.0	204.0	J	102.0	160.0 - 240.0	P
	Manganese	mg/Kg	20.0	21.1		105.5	16.0 - 24.0	P
	Nickel	mg/Kg	50.0	51.5		103.0	40.0 - 60.0	P
	Potassium	mg/Kg	1000.0	896.7		89.7	800.0 - 1200.0	P
	Selenium	mg/Kg	200.0	208.3		104.2	160.0 - 240.0	P
	Silver	mg/Kg	7.5	7.9		105.3	6.0 - 9.0	P
	Sodium	mg/Kg	300.0	306.5	J	102.2	240.0 - 360.0	P
	Thallium	mg/Kg	200.0	201.4		100.7	160.0 - 240.0	P
	Vanadium	mg/Kg	30.0	30.5		101.7	24.0 - 36.0	P
	Zinc	mg/Kg	20.0	21.7		108.5	16.0 - 24.0	P

Metals

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SERIAL DILUTION SAMPLE SUMMARY

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Matrix: WATER **Level:** LOW **Client ID:** CPO13-20001N0704L

Sample ID: S3794-01 **Serial Dilution ID:** S3794-01L

Analyte	Initial Result ug/L	C	Serial Result ug/L	C	% Difference	Qual	Acceptance Limits	M
Aluminum	109574.90		110383.60		0.7		10.00 %	P
Antimony	6.60	U	33.00	U			10.00 %	P
Arsenic	23.54		24.22	U	100.0		10.00 %	P
Barium	340.67		328.82	J	3.5		10.00 %	P
Beryllium	4.40	J	6.68	J	51.8		10.00 %	P
Cadmium	11.58		9.30	J	19.7		10.00 %	P
Calcium	3324.28	J	8723.50	U	100.0		10.00 %	P
Chromium	95.34		98.92		3.8		10.00 %	P
Cobalt	287.22		291.20		1.4		10.00 %	P
Copper	76.74		74.42	J	3.0		10.00 %	P
Iron	132937.10		141480.90		6.4		10.00 %	P
Lead	67.44		79.65		18.1		10.00 %	P
Magnesium	5510.48		5733.42	J	4.0		10.00 %	P
Manganese	4528.70		4768.48		5.3		10.00 %	P
Nickel	60.50		65.35	J	8.0		10.00 %	P
Potassium	2285.12	J	1705.52	J	25.4		10.00 %	P
Selenium	11.69		26.18	U	100.0		10.00 %	P
Silver	3.38	U	16.90	U			10.00 %	P
Sodium	189.47	U	947.36	U			10.00 %	P
Thallium	5.78	U	28.89	U			10.00 %	P
Vanadium	211.55		214.88	J	1.6		10.00 %	P
Zinc	287.11		278.42		3.0		10.00 %	P

Metals

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SERIAL DILUTION SAMPLE SUMMARY

Client: Chazen Companies **SDG No.:** S3812

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3812 **SAS No.:** S3812

Matrix: WATER **Level:** LOW **Client ID:** SDURKEE-SS4L

Sample ID: S3786-05 **Serial Dilution ID:** S3786-05L

Analyte	Initial Result ug/L	C	Serial Result ug/L	C	% Difference	Qual	Acceptance Limits	M
Mercury	0.15	J	0.03	U	100.0		10.00 %	CV

DATAVAL, INC.
Environmental Data Validation

JAMES B. BALDWIN, JR.
Phone/Fax (607) 642-5460

518 ~~520~~ Hooper Road, PMB 283
Endwell, NY 13760

DATA USABILITY SUMMARY REPORT

for

THE CHAZEN COMPANIES

20 Gurley Avenue

Troy, NY 12182

FORMER STILLWATER BOILER HOUSE
ID#B-001975-5
SDG:S3409
Sampled 6/28/04 thru 6/30/04

SOIL SAMPLES for METALS

SB13 4-8	(S3409-01)	SB31 4-8	(S3409-02)
SB31 4-8D	(S3409-03)	SB03 4-8	(S3409-04)
SB04 4-8	(S3409-05)	SB04 12-16	(S3409-06)
SB18 4-8	(S3409-07)	SB07 4-8	(S3409-08)
SB33 4-8	(S3409-09)	SB29 0-4	(S3409-10)
SB34 8-12	(S3409-11)	SB34 8-12D	(S3409-12)
SB32 4-8	(S3409-13)	SB20 4-8	(S3409-14)
SB24 4-8	(S3409-15)	SB26 4-8	(S3409-16)

DATA ASSESSMENT

An inorganics data package containing analytical results for sixteen soil samples was received from The Chazen Companies on 21Sep04. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Stillwater Boiler House site (ID#B-00197-5), were identified by Chain of Custody documents and traceable through the work of CHEMTECH, the laboratory contracted for analysis. Analyses were performed using SW-846 methods 6010 and 7471. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 06/2000. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOW HW-2, Rev. 11, Jan. 1992, Evaluation of Metals Data for the Contract Laboratory Program) was used as a technical reference.

Positive silver and all potassium results have been qualified as estimations due to unacceptable matrix spike recoveries.

Selenium and thallium results have been qualified as estimations due to poor CRDL performance.

Calcium, lead and potassium results have been qualified as estimations due to poor serial dilution results.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Reported concentrations that are felt to provide a usable estimation of the conditions being measured have been flagged "J". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase

confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 10/18/04

SAMPLE HISTORY

Sample holding times are calculated between the time of laboratory receipt (VTSR) and the time of analysis. Mercury samples must be analyzed within 26 days of receipt; the remaining metals within 180 days. Each sample delivery group, containing up to 20 samples, should include a field duplicate, a laboratory split duplicate, a matrix spiked sample, and a rinsate blank.

This sample delivery group contained sixteen soil samples. The samples were collected from the Former Stillwater Boiler House site between 28Jun04 and 30Jun04. The entire group of samples was shipped to the laboratory, via FedEx, on 01Jul04. The shipment arrived, intact, the following morning.

The samples were digested for ICP metals and mercury on 13Jul04. Mercury determinations were completed on 13Jul04. ICP analyses were finished on 16Jul04. Program holding time limitations were satisfied.

CALIBRATIONS

Calibration curves are constructed, using certified materials, to define the linear range of each analytical instrument. Beyond this range, measurements cannot be made with confidence. The calibration curve is immediately tested by analyzing an initial calibration verification standard (ICV). Continuing verifications (CCV) must bracket each group of up to ten samples. ICV and CCV recoveries must meet established criteria.

ICP calibrations were performed with a blank and three standards. Calibrations for mercury were performed with a blank and five standards. The lowest mercury standard equaled CRDL. The mercury calibration curve demonstrated an acceptable degree of linearity.

Each instrument calibration was immediately verified by the analysis of an ICV standard. Continuing calibration checks were made following each group of 10 samples. Each calibration check that was used to bracket samples from this program satisfied the program acceptance criteria.

CONTRACT REQUIED DETECTION LIMIT STANARDS (CRDL)

To verify instrument linearity near CRDL, an ICP standard at a concentration of twice CRDL (CRI) is analyzed at the beginning and end of each analytical sequence. A standard equaling CRDL

(CRA) must be included in each atomic adsorption sequence. CRDL standards must produce a recovery between 80% and 120%.

The CRDL results reported by the laboratory included unacceptable recoveries of selenium (124%) and thallium (76%). Based on these indications of bias, the selenium and thallium results reported from this group of samples have been qualified as estimations.

It is noted that the laboratory did not analyze CRDL standards at the end of each analytical sequence. Although the requirements of the cited methods were satisfied, ASP protocol was not. Data has not been qualified due to this omission. However, this issue should be brought to the laboratory's attention prior to the next sampling event.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Preparation blanks are carried through the digestion process with each group of samples to evaluate general laboratory technique. Calibration blanks are run periodically to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

An initial blank (ICB) was analyzed following the calibration in each analytical sequence. Additional blanks were analyzed after every ten samples (CCB) and at the end of each sequence. Preparation blanks were digested, prior to analysis, with each group of samples. Each laboratory prepared blank that was associated with samples from this program was free of analyte contamination exceeding CRDL.

INTERFERENCE CHECK SAMPLE (ICS)

ICS standards are analyzed at the beginning and end of each ICP analysis sequence to verify background and inter-element correction factors. The recoveries of specified analytes are measured in the presence of interfering concentrations of aluminum, calcium, magnesium and iron.

Interference check standards, ICSA and ICSAB, were included in each ICP analysis sequence. Each interference check standard that was used to bracket samples from this program produced recoveries within the range of acceptance, 80% - 120%.

It is noted that the laboratory did not analyze ICS standards at the end of each analytical sequence. Although the requirements of the cited methods were satisfied, ASP protocol was not. Data has not been qualified due to this omission. However, this issue should be brought to the laboratory's attention prior to the next sampling event.

PREDIGESTION SPIKE

The recovery of spike concentrations added to samples prior to digestion and analysis demonstrates measurement bias caused by sample matrix effects. Predigestion spikes must be recovered within control limits of 75% - 125%.

SB29 0-4 was selected for matrix spiking. With the exception of mercury, the required analytes were added to two portions of this sample. Mercury was added to a sample from an unrelated delivery group. With the exception of potassium (155%,154%) and silver (155%,155%), each of these additions was recovered successfully. One high recovery was also reported for mercury (129%). Based on these indications of bias, positive potassium, silver and mercury results have been qualified as estimation.

Unacceptable matrix spike recoveries were also reported for aluminum, iron, magnesium and manganese. In each of these cases, however, the analyte concentration in the unspiked sample exceeded four times the level of the spike that was added. Data qualifications were not required.

Again, it is noted that the mercury spiked samples provided no indication of matrix affects that might bias samples from this site. Future data packages should include matrix spikes prepared with program samples, as required by ASP protocol.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Laboratory split duplicates of SB29 0-4 were processed with this group of samples. The concentrations obtained from this duplicate pair differed by less than 20% RPD or PQL. An acceptable level of measurement precision was demonstrated. A duplicate pair from an unrelated delivery group were evaluated

for mercury. An acceptable level of precision was demonstrated. Again, ASP protocol was not satisfied.

Field split duplicates of SB31 4-8 and SB34 8-12 were also included in this delivery group. Each analyte that was present in these samples, at a concentration above CRDL, produced a duplicate result that differed by less than 60% RPD. The program requirement was satisfied.

LABORATORY CONTROL STANDARD

Laboratory control samples are prepared by adding analytes to clean sand or reagent water. Analyte concentrations are then determined without interferences caused by sample matrix effects.

A solid LCS standard was digested and analyzed with this group of samples. Acceptable recoveries were reported for each targeted analyte.

ICP SERIAL SILUTION SAMPLE

Possible matrix effects are verified by the process of serial dilutions. Samples are diluted 1:5 to reduce matrix contributions that might bias measurements. The original sample result, and the corrected concentration of the diluted sample are compared. Sample data is qualified if the original concentrations are not recovered within 10%. Analytes with initial concentrations below 50 times IDL are not considered.

SB29 0-4 was prepared as a serial dilution. Mercury was evaluated using a sample from an unrelated program. Of the analytes present in the undiluted aliquots of these samples, at a concentration exceeding 50 times IDL, only calcium (23%), lead (11%) and potassium (32%) differed from the diluted result by more than 10%. Calcium, lead and potassium results have been qualified as estimations.

SUMMARY OF QUALIFIED DATA

Former Stillwater Boiler House site

Sampled 28Jun04 thru 30Jun04

	CRDL SELENIUM	CRDL THALLIUM	SPIKES POTASSIUM	SPIKES SILVER	SER DIL CALCIUM	SER DIL LEAD	SER DIL POTASSIUM.
SB13 4-8 (S3409-01)	2.56J	UJ	1780J	0.83J	6240J	64.7J	1780J
SB31 4-8 (S3409-02)	1.92J	UJ	1910J	0.39J	1260J	13.1J	1910J
SB31 4-8D (S3409-03)	1.84J	UJ	2070J	0.40J	1470J	19.3J	2070J
SB03 4-8 (S3409-04)	2.31J	UJ	516J		2850J	72.2J	516J
SB04 4-8 (S3409-05)	1.31J	UJ	1200J	0.37J	2410J	19.0J	1200J
SB04 12-16 (S3409-06)	1.26J	UJ	1610J		5200J	85.6J	1610J
SB18 4-8 (S3409-07)	1.03J	UJ	1980J	0.26J	2170J	16.9J	1980J
SB07 4-8 (S3409-08)	1.17J	UJ	3310J	0.27J	1610J	15.1J	3310J
SB33 4-8 (S3409-09)	4.00J	UJ	1410J	0.66J	5540J	61.4J	1410J
SB29 0-4 (S3409-10)	0.36J	UJ	932J		61100J	18.1J	932J
SB34 8-12 (S3409-11)	1.05J	UJ	1670J	0.14J	1960J	17.6J	1670J
SB34 8-12D (S3409-12)	0.76J	UJ	1540J		1500J	16.0J	1540J
SB32 4-8 (S3409-13)	1.51J	UJ	1830J	0.25J	1960J	19.0J	1830J
SB20 4-8 (S3409-14)	2.17J	UJ	1550J	0.23J	7070J	301J	1550J
SB24 4-8 (S3409-15)	1.24J	UJ	1880J	0.41J	1520J	16.2J	1880J
SB26 4-8 (S3409-16)	1.03J	UJ	2220J		28600J	194J	2220J

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-01 **Client ID:** SB-134-8

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 83.2

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	12600	mg/Kg			P	0.749	P1	P107154
7440-36-0	Antimony	0.670	mg/Kg	U		P	0.670	P1	P107154
7440-38-2	Arsenic	11.9	mg/Kg			P	0.282	P1	P107154
7440-39-3	Barium	89.0	mg/Kg			P	0.026	P1	P107154
7440-41-7	Beryllium	0.727	mg/Kg			P	0.005	P1	P107154
7440-43-9	Cadmium	2.350	mg/Kg			P	0.055	P1	P107154
7440-70-2	Calcium	6240	mg/Kg	J		P	0.417	P1	P107154
7440-47-3	Chromium	17.2	mg/Kg			P	0.113	P1	P107154
7440-48-4	Cobalt	18.6	mg/Kg			P	0.094	P1	P107154
7440-50-8	Copper	621	mg/Kg			P	0.136	P1	P107154
7439-89-6	Iron	35300	mg/Kg			P	2.100	P1	P107154
7439-92-1	Lead	64.7	mg/Kg	J		P	0.123	P1	P107154
7439-95-4	Magnesium	7300	mg/Kg			P	0.019	P1	P107154
7439-96-5	Manganese	371	mg/Kg			P	0.954	P1	P107154
7439-97-6	Mercury	0.08	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	28.5	mg/Kg			P	0.180	P1	P107154
7440-09-7	Potassium	1780	mg/Kg	J	N	P	3.910	P1	P107154
7782-49-2	Selenium	2.560	mg/Kg	J		P	0.372	P1	P107154
7440-22-4	Silver	0.829	mg/Kg	~~J~~ J	N	P	0.125	P1	P107154
7440-23-5	Sodium	140	mg/Kg	J		P	44.2	P1	P107154
7440-28-0	Thallium	0.393	mg/Kg	~~U~~ UJ		P	0.393	P1	P107154
7440-62-2	Vanadium	19.7	mg/Kg			P	0.121	P1	P107154
7440-66-6	Zinc	252	mg/Kg			P	0.067	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-02 **Client ID:** SB-314-8

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 80.2

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	19300	mg/Kg			P	0.777	P1	P107154
7440-36-0	Antimony	0.695	mg/Kg	U		P	0.695	P1	P107154
7440-38-2	Arsenic	8.450	mg/Kg			P	0.293	P1	P107154
7440-39-3	Barium	78.3	mg/Kg			P	0.027	P1	P107154
7440-41-7	Beryllium	0.628	mg/Kg			P	0.005	P1	P107154
7440-43-9	Cadmium	1.020	mg/Kg			P	0.057	P1	P107154
7440-70-2	Calcium	1260	mg/Kg	J		P	0.432	P1	P107154
7440-47-3	Chromium	23.3	mg/Kg			P	0.117	P1	P107154
7440-48-4	Cobalt	15.0	mg/Kg			P	0.098	P1	P107154
7440-50-8	Copper	22.5	mg/Kg			P	0.141	P1	P107154
7439-89-6	Iron	29300	mg/Kg			P	2.180	P1	P107154
7439-92-1	Lead	13.1	mg/Kg	J		P	0.127	P1	P107154
7439-95-4	Magnesium	4890	mg/Kg			P	0.020	P1	P107154
7439-96-5	Manganese	270	mg/Kg			P	0.990	P1	P107154
7439-97-6	Mercury	0.03	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	20.1	mg/Kg			P	0.186	P1	P107154
7440-09-7	Potassium	1910	mg/Kg	J	N	P	4.060	P1	P107154
7782-49-2	Selenium	1.920	mg/Kg	J		P	0.386	P1	P107154
7440-22-4	Silver	0.392	mg/Kg	~~J~~ J	N	P	0.130	P1	P107154
7440-23-5	Sodium	593	mg/Kg	J		P	45.9	P1	P107154
7440-28-0	Thallium	0.407	mg/Kg	~~J~~ UJ		P	0.407	P1	P107154
7440-62-2	Vanadium	29.0	mg/Kg			P	0.126	P1	P107154
7440-66-6	Zinc	56.2	mg/Kg			P	0.069	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** _____ **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** _____ **Artifacts:** _____

Comments: _____

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-03 **Client ID:** SB-314-8DUP

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 75.7

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	20600	mg/Kg			P	0.831	P1	P107154
7440-36-0	Antimony	0.744	mg/Kg	U		P	0.744	P1	P107154
7440-38-2	Arsenic	12.9	mg/Kg			P	0.313	P1	P107154
7440-39-3	Barium	70.8	mg/Kg			P	0.029	P1	P107154
7440-41-7	Beryllium	0.728	mg/Kg			P	0.005	P1	P107154
7440-43-9	Cadmium	1.440	mg/Kg			P	0.061	P1	P107154
7440-70-2	Calcium	1470	mg/Kg	J		P	0.462	P1	P107154
7440-47-3	Chromium	25.8	mg/Kg			P	0.125	P1	P107154
7440-48-4	Cobalt	8.330	mg/Kg			P	0.104	P1	P107154
7440-50-8	Copper	25.9	mg/Kg			P	0.151	P1	P107154
7439-89-6	Iron	38600	mg/Kg			P	2.330	P1	P107154
7439-92-1	Lead	19.3	mg/Kg	J		P	0.136	P1	P107154
7439-95-4	Magnesium	4780	mg/Kg			P	0.021	P1	P107154
7439-96-5	Manganese	494	mg/Kg			P	1.060	P1	P107154
7439-97-6	Mercury	0.04	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	18.2	mg/Kg			P	0.199	P1	P107154
7440-09-7	Potassium	2070	mg/Kg	J	N	P	4.340	P1	P107154
7782-49-2	Selenium	1.840	mg/Kg	J		P	0.413	P1	P107154
7440-22-4	Silver	0.400	mg/Kg	~~J~~ UJ	N	P	0.139	P1	P107154
7440-23-5	Sodium	603	mg/Kg	J		P	49.1	P1	P107154
7440-28-0	Thallium	0.436	mg/Kg	~~J~~ UJ		P	0.436	P1	P107154
7440-62-2	Vanadium	31.7	mg/Kg			P	0.135	P1	P107154
7440-66-6	Zinc	62.0	mg/Kg			P	0.074	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** _____ **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** _____ **Artifacts:** _____

Comments: _____

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-04 **Client ID:** SB-034-8

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 76.4

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	1300	mg/Kg			P	0.823	P1	P107154
7440-36-0	Antimony	1.300	mg/Kg	J		P	0.737	P1	P107154
7440-38-2	Arsenic	16.1	mg/Kg			P	0.310	P1	P107154
7440-39-3	Barium	76.1	mg/Kg			P	0.029	P1	P107154
7440-41-7	Beryllium	0.347	mg/Kg	J		P	0.005	P1	P107154
7440-43-9	Cadmium	0.552	mg/Kg	J		P	0.060	P1	P107154
7440-70-2	Calcium	2850	mg/Kg	J		P	0.458	P1	P107154
7440-47-3	Chromium	3.490	mg/Kg			P	0.124	P1	P107154
7440-48-4	Cobalt	3.530	mg/Kg	J		P	0.103	P1	P107154
7440-50-8	Copper	32.4	mg/Kg			P	0.149	P1	P107154
7439-89-6	Iron	15500	mg/Kg			P	2.310	P1	P107154
7439-92-1	Lead	72.2	mg/Kg	J		P	0.135	P1	P107154
7439-95-4	Magnesium	425	mg/Kg	J		P	0.021	P1	P107154
7439-96-5	Manganese	461	mg/Kg			P	1.050	P1	P107154
7439-97-6	Mercury	1.3	mg/Kg		N	CV	0.04	CV2	071304C
7440-02-0	Nickel	9.440	mg/Kg			P	0.198	P1	P107154
7440-09-7	Potassium	516	mg/Kg	J	N	P	4.300	P1	P107154
7782-49-2	Selenium	2.310	mg/Kg	J		P	0.410	P1	P107154
7440-22-4	Silver	0.137	mg/Kg	U	N	P	0.137	P1	P107154
7440-23-5	Sodium	154	mg/Kg	J		P	48.6	P1	P107154
7440-28-0	Thallium	0.432	mg/Kg	UJ		P	0.432	P1	P107154
7440-62-2	Vanadium	21.5	mg/Kg			P	0.134	P1	P107154
7440-66-6	Zinc	42.5	mg/Kg			P	0.073	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** _____ **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** _____ **Artifacts:** _____

Comments: _____

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-05 **Client ID:** SB-044-8

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 78.8

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	12900	mg/Kg			P	0.798	P1	P107154
7440-36-0	Antimony	0.714	mg/Kg	U		P	0.714	P1	P107154
7440-38-2	Arsenic	8.800	mg/Kg			P	0.301	P1	P107154
7440-39-3	Barium	82.9	mg/Kg			P	0.028	P1	P107154
7440-41-7	Beryllium	0.559	mg/Kg	J		P	0.005	P1	P107154
7440-43-9	Cadmium	0.846	mg/Kg			P	0.058	P1	P107154
7440-70-2	Calcium	2410	mg/Kg	J		P	0.444	P1	P107154
7440-47-3	Chromium	17.3	mg/Kg			P	0.121	P1	P107154
7440-48-4	Cobalt	5.800	mg/Kg	J		P	0.100	P1	P107154
7440-50-8	Copper	12.0	mg/Kg			P	0.145	P1	P107154
7439-89-6	Iron	25400	mg/Kg			P	2.240	P1	P107154
7439-92-1	Lead	19.0	mg/Kg	J		P	0.131	P1	P107154
7439-95-4	Magnesium	3900	mg/Kg			P	0.020	P1	P107154
7439-96-5	Manganese	428	mg/Kg			P	1.020	P1	P107154
7439-97-6	Mercury	0.12	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	14.0	mg/Kg			P	0.192	P1	P107154
7440-09-7	Potassium	1200	mg/Kg	J	N	P	4.170	P1	P107154
7782-49-2	Selenium	1.310	mg/Kg	J		P	0.397	P1	P107154
7440-22-4	Silver	0.370	mg/Kg	~~J~~ UJ	N	P	0.133	P1	P107154
7440-23-5	Sodium	47.2	mg/Kg	U		P	47.2	P1	P107154
7440-28-0	Thallium	0.419	mg/Kg	~~J~~ UJ		P	0.419	P1	P107154
7440-62-2	Vanadium	22.2	mg/Kg			P	0.129	P1	P107154
7440-66-6	Zinc	36.8	mg/Kg			P	0.071	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** _____ **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** _____ **Artifacts:** _____

Comments: _____

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-06 **Client ID:** SB-0412-16

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 82.2

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	11900	mg/Kg			P	0.750	P1	P107154
7440-36-0	Antimony	0.671	mg/Kg	U		P	0.671	P1	P107154
7440-38-2	Arsenic	11.2	mg/Kg			P	0.283	P1	P107154
7440-39-3	Barium	123	mg/Kg			P	0.026	P1	P107154
7440-41-7	Beryllium	0.770	mg/Kg			P	0.005	P1	P107154
7440-43-9	Cadmium	1.070	mg/Kg			P	0.055	P1	P107154
7440-70-2	Calcium	5200	mg/Kg	J		P	0.417	P1	P107154
7440-47-3	Chromium	16.4	mg/Kg			P	0.113	P1	P107154
7440-48-4	Cobalt	13.6	mg/Kg			P	0.094	P1	P107154
7440-50-8	Copper	39.6	mg/Kg			P	0.136	P1	P107154
7439-89-6	Iron	26200	mg/Kg			P	2.100	P1	P107154
7439-92-1	Lead	85.6	mg/Kg	J		P	0.123	P1	P107154
7439-95-4	Magnesium	4950	mg/Kg			P	0.019	P1	P107154
7439-96-5	Manganese	683	mg/Kg			P	0.957	P1	P107154
7439-97-6	Mercury	0.10	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	31.6	mg/Kg			P	0.180	P1	P107154
7440-09-7	Potassium	1610	mg/Kg	J	N	P	3.920	P1	P107154
7782-49-2	Selenium	1.260	mg/Kg	J		P	0.373	P1	P107154
7440-22-4	Silver	0.125	mg/Kg	U	N	P	0.125	P1	P107154
7440-23-5	Sodium	357	mg/Kg	J		P	44.3	P1	P107154
7440-28-0	Thallium	0.394	mg/Kg	UJ		P	0.394	P1	P107154
7440-62-2	Vanadium	20.9	mg/Kg			P	0.122	P1	P107154
7440-66-6	Zinc	91.4	mg/Kg			P	0.067	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-07 **Client ID:** SB-184-8

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 84.9

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	13500	mg/Kg			P	0.741	P1	P107154
7440-36-0	Antimony	0.663	mg/Kg	U		P	0.663	P1	P107154
7440-38-2	Arsenic	6.300	mg/Kg			P	0.279	P1	P107154
7440-39-3	Barium	87.4	mg/Kg			P	0.026	P1	P107154
7440-41-7	Beryllium	0.681	mg/Kg			P	0.005	P1	P107154
7440-43-9	Cadmium	0.817	mg/Kg			P	0.054	P1	P107154
7440-70-2	Calcium	2170	mg/Kg	J		P	0.412	P1	P107154
7440-47-3	Chromium	20.0	mg/Kg			P	0.112	P1	P107154
7440-48-4	Cobalt	11.5	mg/Kg			P	0.093	P1	P107154
7440-50-8	Copper	35.0	mg/Kg			P	0.134	P1	P107154
7439-89-6	Iron	22200	mg/Kg			P	2.080	P1	P107154
7439-92-1	Lead	16.9	mg/Kg	J		P	0.121	P1	P107154
7439-95-4	Magnesium	5250	mg/Kg			P	0.019	P1	P107154
7439-96-5	Manganese	483	mg/Kg			P	0.945	P1	P107154
7439-97-6	Mercury	0.05	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	33.8	mg/Kg			P	0.178	P1	P107154
7440-09-7	Potassium	1980	mg/Kg	J	N	P	3.870	P1	P107154
7782-49-2	Selenium	1.030	mg/Kg	J		P	0.369	P1	P107154
7440-22-4	Silver	0.264	mg/Kg	J	N	P	0.124	P1	P107154
7440-23-5	Sodium	73.2	mg/Kg	J		P	43.8	P1	P107154
7440-28-0	Thallium	0.389	mg/Kg	UJ		P	0.389	P1	P107154
7440-62-2	Vanadium	20.5	mg/Kg			P	0.120	P1	P107154
7440-66-6	Zinc	73.9	mg/Kg			P	0.066	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** _____ **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** _____ **Artifacts:** _____

Comments: _____

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-08 **Client ID:** SB-074-8

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 82.6

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	18100	mg/Kg			P	0.762	P1	P107154
7440-36-0	Antimony	0.682	mg/Kg	U		P	0.682	P1	P107154
7440-38-2	Arsenic	8.430	mg/Kg			P	0.287	P1	P107154
7440-39-3	Barium	114	mg/Kg			P	0.027	P1	P107154
7440-41-7	Beryllium	0.740	mg/Kg			P	0.005	P1	P107154
7440-43-9	Cadmium	1.160	mg/Kg			P	0.056	P1	P107154
7440-70-2	Calcium	1610	mg/Kg	J		P	0.424	P1	P107154
7440-47-3	Chromium	25.8	mg/Kg			P	0.115	P1	P107154
7440-48-4	Cobalt	14.4	mg/Kg			P	0.096	P1	P107154
7440-50-8	Copper	50.6	mg/Kg			P	0.138	P1	P107154
7439-89-6	Iron	30100	mg/Kg			P	2.130	P1	P107154
7439-92-1	Lead	15.1	mg/Kg	J		P	0.125	P1	P107154
7439-95-4	Magnesium	6250	mg/Kg			P	0.019	P1	P107154
7439-96-5	Manganese	397	mg/Kg			P	0.971	P1	P107154
7439-97-6	Mercury	0.05	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	38.8	mg/Kg			P	0.183	P1	P107154
7440-09-7	Potassium	3310	mg/Kg	J	N	P	3.980	P1	P107154
7782-49-2	Selenium	1.170	mg/Kg	~~J~~ J		P	0.379	P1	P107154
7440-22-4	Silver	0.272	mg/Kg	~~J~~ J	N	P	0.127	P1	P107154
7440-23-5	Sodium	124	mg/Kg	J		P	45.0	P1	P107154
7440-28-0	Thallium	0.400	mg/Kg	~~J~~ UJ		P	0.400	P1	P107154
7440-62-2	Vanadium	28.0	mg/Kg			P	0.123	P1	P107154
7440-66-6	Zinc	75.0	mg/Kg			P	0.068	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-09 **Client ID:** SB-334-8

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 77.2

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	4270	mg/Kg			P	0.807	P1	P107154
7440-36-0	Antimony	1.320	mg/Kg	J		P	0.722	P1	P107154
7440-38-2	Arsenic	121	mg/Kg			P	0.304	P1	P107154
7440-39-3	Barium	167	mg/Kg			P	0.028	P1	P107154
7440-41-7	Beryllium	0.482	mg/Kg	J		P	0.005	P1	P107154
7440-43-9	Cadmium	1.770	mg/Kg			P	0.059	P1	P107154
7440-70-2	Calcium	5540	mg/Kg	J		P	0.449	P1	P107154
7440-47-3	Chromium	7.180	mg/Kg			P	0.122	P1	P107154
7440-48-4	Cobalt	4.310	mg/Kg	J		P	0.101	P1	P107154
7440-50-8	Copper	27.7	mg/Kg			P	0.146	P1	P107154
7439-89-6	Iron	37900	mg/Kg			P	2.260	P1	P107154
7439-92-1	Lead	61.4	mg/Kg	J		P	0.132	P1	P107154
7439-95-4	Magnesium	1750	mg/Kg			P	0.021	P1	P107154
7439-96-5	Manganese	169	mg/Kg			P	1.030	P1	P107154
7439-97-6	Mercury	0.60	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	11.3	mg/Kg			P	0.194	P1	P107154
7440-09-7	Potassium	1410	mg/Kg	J	N	P	4.220	P1	P107154
7782-49-2	Selenium	4.000	mg/Kg	J		P	0.401	P1	P107154
7440-22-4	Silver	0.660	mg/Kg	~~J~~ J	N	P	0.135	P1	P107154
7440-23-5	Sodium	221	mg/Kg	J		P	47.7	P1	P107154
7440-28-0	Thallium	0.423	mg/Kg	~~J~~ UJ		P	0.423	P1	P107154
7440-62-2	Vanadium	12.2	mg/Kg			P	0.131	P1	P107154
7440-66-6	Zinc	63.7	mg/Kg			P	0.072	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-10 **Client ID:** SB-290-4

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 92.8

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	6750	mg/Kg			P	0.678	P1	P107154
7440-36-0	Antimony	0.607	mg/Kg	U		P	0.607	P1	P107154
7440-38-2	Arsenic	7.920	mg/Kg			P	0.255	P1	P107154
7440-39-3	Barium	91.4	mg/Kg			P	0.024	P1	P107154
7440-41-7	Beryllium	0.379	mg/Kg	J		P	0.004	P1	P107154
7440-43-9	Cadmium	0.604	mg/Kg			P	0.050	P1	P107154
7440-70-2	Calcium	61100	mg/Kg	J		P	0.377	P1	P107154
7440-47-3	Chromium	6.510	mg/Kg			P	0.102	P1	P107154
7440-48-4	Cobalt	6.460	mg/Kg			P	0.085	P1	P107154
7440-50-8	Copper	15.9	mg/Kg			P	0.123	P1	P107154
7439-89-6	Iron	13200	mg/Kg			P	1.900	P1	P107154
7439-92-1	Lead	18.1	mg/Kg	J		P	0.111	P1	P107154
7439-95-4	Magnesium	17500	mg/Kg			P	0.017	P1	P107154
7439-96-5	Manganese	443	mg/Kg			P	0.864	P1	P107154
7439-97-6	Mercury	0.05	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	13.0	mg/Kg			P	0.163	P1	P107154
7440-09-7	Potassium	932	mg/Kg	J	N	P	3.540	P1	P107154
7782-49-2	Selenium	0.355	mg/Kg	J		P	0.337	P1	P107154
7440-22-4	Silver	0.113	mg/Kg	U	N	P	0.113	P1	P107154
7440-23-5	Sodium	82.4	mg/Kg	J		P	40.1	P1	P107154
7440-28-0	Thallium	0.356	mg/Kg	UJ		P	0.356	P1	P107154
7440-62-2	Vanadium	8.280	mg/Kg			P	0.110	P1	P107154
7440-66-6	Zinc	47.0	mg/Kg			P	0.060	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** _____ **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** _____ **Artifacts:** _____

Comments: _____

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-11 **Client ID:** SB-348-12

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 86.3

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	11300	mg/Kg			P	0.729	P1	P107154
7440-36-0	Antimony	0.652	mg/Kg	U		P	0.652	P1	P107154
7440-38-2	Arsenic	8.880	mg/Kg			P	0.275	P1	P107154
7440-39-3	Barium	69.4	mg/Kg			P	0.025	P1	P107154
7440-41-7	Beryllium	0.641	mg/Kg			P	0.005	P1	P107154
7440-43-9	Cadmium	0.892	mg/Kg			P	0.053	P1	P107154
7440-70-2	Calcium	1960	mg/Kg	J		P	0.406	P1	P107154
7440-47-3	Chromium	15.7	mg/Kg			P	0.110	P1	P107154
7440-48-4	Cobalt	15.4	mg/Kg			P	0.092	P1	P107154
7440-50-8	Copper	44.4	mg/Kg			P	0.132	P1	P107154
7439-89-6	Iron	25300	mg/Kg			P	2.040	P1	P107154
7439-92-1	Lead	17.6	mg/Kg	J		P	0.119	P1	P107154
7439-95-4	Magnesium	5020	mg/Kg			P	0.019	P1	P107154
7439-96-5	Manganese	874	mg/Kg			P	0.929	P1	P107154
7439-97-6	Mercury	0.05	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	35.2	mg/Kg			P	0.175	P1	P107154
7440-09-7	Potassium	1670	mg/Kg	J	N	P	3.810	P1	P107154
7782-49-2	Selenium	1.050	mg/Kg	~~J~~ J		P	0.363	P1	P107154
7440-22-4	Silver	0.135	mg/Kg	~~J~~ J	N	P	0.122	P1	P107154
7440-23-5	Sodium	43.1	mg/Kg	U		P	43.1	P1	P107154
7440-28-0	Thallium	0.382	mg/Kg	~~U~~ UJ		P	0.382	P1	P107154
7440-62-2	Vanadium	17.2	mg/Kg			P	0.118	P1	P107154
7440-66-6	Zinc	102	mg/Kg			P	0.065	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-12 **Client ID:** SB-348-12DUP

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 90.4

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	9520	mg/Kg			P	0.682	P1	P107154
7440-36-0	Antimony	0.611	mg/Kg	U		P	0.611	P1	P107154
7440-38-2	Arsenic	7.790	mg/Kg			P	0.257	P1	P107154
7440-39-3	Barium	54.9	mg/Kg			P	0.024	P1	P107154
7440-41-7	Beryllium	0.521	mg/Kg	J		P	0.004	P1	P107154
7440-43-9	Cadmium	0.721	mg/Kg			P	0.050	P1	P107154
7440-70-2	Calcium	1500	mg/Kg	J		P	0.380	P1	P107154
7440-47-3	Chromium	13.7	mg/Kg			P	0.103	P1	P107154
7440-48-4	Cobalt	10.7	mg/Kg			P	0.086	P1	P107154
7440-50-8	Copper	29.4	mg/Kg			P	0.124	P1	P107154
7439-89-6	Iron	21000	mg/Kg			P	1.910	P1	P107154
7439-92-1	Lead	16.0	mg/Kg	J		P	0.112	P1	P107154
7439-95-4	Magnesium	4290	mg/Kg			P	0.017	P1	P107154
7439-96-5	Manganese	503	mg/Kg			P	0.870	P1	P107154
7439-97-6	Mercury	0.04	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	24.4	mg/Kg			P	0.164	P1	P107154
7440-09-7	Potassium	1540	mg/Kg	J	N	P	3.570	P1	P107154
7782-49-2	Selenium	0.764	mg/Kg	~~J~~ J		P	0.339	P1	P107154
7440-22-4	Silver	0.114	mg/Kg	U	N	P	0.114	P1	P107154
7440-23-5	Sodium	40.3	mg/Kg	U		P	40.3	P1	P107154
7440-28-0	Thallium	0.358	mg/Kg	~~J~~ UJ		P	0.358	P1	P107154
7440-62-2	Vanadium	14.2	mg/Kg			P	0.111	P1	P107154
7440-66-6	Zinc	67.0	mg/Kg			P	0.061	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** _____ **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** _____ **Artifacts:** _____

Comments: _____

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-13 **Client ID:** SB-324-8

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 87.6

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	13600	mg/Kg			P	0.718	P1	P107154
7440-36-0	Antimony	0.643	mg/Kg	U		P	0.643	P1	P107154
7440-38-2	Arsenic	8.710	mg/Kg			P	0.271	P1	P107154
7440-39-3	Barium	55.8	mg/Kg			P	0.025	P1	P107154
7440-41-7	Beryllium	0.731	mg/Kg			P	0.005	P1	P107154
7440-43-9	Cadmium	1.720	mg/Kg			P	0.053	P1	P107154
7440-70-2	Calcium	1960	mg/Kg	J		P	0.400	P1	P107154
7440-47-3	Chromium	21.3	mg/Kg			P	0.108	P1	P107154
7440-48-4	Cobalt	28.3	mg/Kg			P	0.090	P1	P107154
7440-50-8	Copper	363	mg/Kg			P	0.130	P1	P107154
7439-89-6	Iron	27500	mg/Kg			P	2.010	P1	P107154
7439-92-1	Lead	19.0	mg/Kg	J		P	0.118	P1	P107154
7439-95-4	Magnesium	6440	mg/Kg			P	0.018	P1	P107154
7439-96-5	Manganese	358	mg/Kg			P	0.916	P1	P107154
7439-97-6	Mercury	0.06	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	31.0	mg/Kg			P	0.172	P1	P107154
7440-09-7	Potassium	1830	mg/Kg	J	N	P	3.750	P1	P107154
7782-49-2	Selenium	1.510	mg/Kg	J		P	0.357	P1	P107154
7440-22-4	Silver	0.253	mg/Kg	J	N	P	0.120	P1	P107154
7440-23-5	Sodium	42.4	mg/Kg	U		P	42.4	P1	P107154
7440-28-0	Thallium	0.377	mg/Kg	UJ		P	0.377	P1	P107154
7440-62-2	Vanadium	23.2	mg/Kg			P	0.116	P1	P107154
7440-66-6	Zinc	165	mg/Kg			P	0.064	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** _____ **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** _____ **Artifacts:** _____

Comments: _____

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-14 **Client ID:** SB-204-8

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 72.4

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	13200	mg/Kg			P	0.869	P1	P107154
7440-36-0	Antimony	0.778	mg/Kg	U		P	0.778	P1	P107154
7440-38-2	Arsenic	15.0	mg/Kg			P	0.327	P1	P107154
7440-39-3	Barium	181	mg/Kg			P	0.030	P1	P107154
7440-41-7	Beryllium	1.350	mg/Kg			P	0.006	P1	P107154
7440-43-9	Cadmium	1.780	mg/Kg			P	0.064	P1	P107154
7440-70-2	Calcium	7070	mg/Kg	J		P	0.483	P1	P107154
7440-47-3	Chromium	17.7	mg/Kg			P	0.131	P1	P107154
7440-48-4	Cobalt	17.0	mg/Kg			P	0.109	P1	P107154
7440-50-8	Copper	90.3	mg/Kg			P	0.157	P1	P107154
7439-89-6	Iron	26700	mg/Kg			P	2.430	P1	P107154
7439-92-1	Lead	301	mg/Kg	J		P	0.142	P1	P107154
7439-95-4	Magnesium	3480	mg/Kg			P	0.022	P1	P107154
7439-96-5	Manganese	546	mg/Kg			P	1.110	P1	P107154
7439-97-6	Mercury	0.09	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	58.1	mg/Kg			P	0.209	P1	P107154
7440-09-7	Potassium	1550	mg/Kg	J	N	P	4.540	P1	P107154
7782-49-2	Selenium	2.170	mg/Kg	J		P	0.432	P1	P107154
7440-22-4	Silver	0.233	mg/Kg	~~J~~ J	N	P	0.145	P1	P107154
7440-23-5	Sodium	395	mg/Kg	J		P	51.3	P1	P107154
7440-28-0	Thallium	0.456	mg/Kg	J UJ		P	0.456	P1	P107154
7440-62-2	Vanadium	24.0	mg/Kg			P	0.141	P1	P107154
7440-66-6	Zinc	360	mg/Kg			P	0.077	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-15 **Client ID:** SB-244-8

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 83.8

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	19900	mg/Kg			P	0.751	P1	P107154
7440-36-0	Antimony	0.672	mg/Kg	U		P	0.672	P1	P107154
7440-38-2	Arsenic	7.780	mg/Kg			P	0.283	P1	P107154
7440-39-3	Barium	93.9	mg/Kg			P	0.026	P1	P107154
7440-41-7	Beryllium	0.886	mg/Kg			P	0.005	P1	P107154
7440-43-9	Cadmium	0.680	mg/Kg			P	0.055	P1	P107154
7440-70-2	Calcium	1520	mg/Kg	J		P	0.418	P1	P107154
7440-47-3	Chromium	17.8	mg/Kg			P	0.113	P1	P107154
7440-48-4	Cobalt	4.210	mg/Kg	J		P	0.094	P1	P107154
7440-50-8	Copper	18.1	mg/Kg			P	0.136	P1	P107154
7439-89-6	Iron	23700	mg/Kg			P	2.100	P1	P107154
7439-92-1	Lead	16.2	mg/Kg	J		P	0.123	P1	P107154
7439-95-4	Magnesium	2700	mg/Kg			P	0.019	P1	P107154
7439-96-5	Manganese	65.8	mg/Kg			P	0.957	P1	P107154
7439-97-6	Mercury	0.04	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	12.0	mg/Kg			P	0.180	P1	P107154
7440-09-7	Potassium	1880	mg/Kg	J	N	P	3.920	P1	P107154
7782-49-2	Selenium	1.240	mg/Kg	J		P	0.374	P1	P107154
7440-22-4	Silver	0.409	mg/Kg	J	N	P	0.125	P1	P107154
7440-23-5	Sodium	48.1	mg/Kg	J		P	44.4	P1	P107154
7440-28-0	Thallium	0.394	mg/Kg	UJ		P	0.394	P1	P107154
7440-62-2	Vanadium	26.1	mg/Kg			P	0.122	P1	P107154
7440-66-6	Zinc	59.3	mg/Kg			P	0.067	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** _____ **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** _____ **Artifacts:** _____

Comments: _____

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Sample ID: S3409-16 **Client ID:** SB-264-8

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Date Received:** 7/2/2004 **Level:** LOW

% Solids: 75.6

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	13300	mg/Kg			P	0.824	P1	P107154
7440-36-0	Antimony	0.737	mg/Kg	U		P	0.737	P1	P107154
7440-38-2	Arsenic	13.3	mg/Kg			P	0.310	P1	P107154
7440-39-3	Barium	149	mg/Kg			P	0.029	P1	P107154
7440-41-7	Beryllium	0.822	mg/Kg			P	0.005	P1	P107154
7440-43-9	Cadmium	1.340	mg/Kg			P	0.060	P1	P107154
7440-70-2	Calcium	28600	mg/Kg	J		P	0.458	P1	P107154
7440-47-3	Chromium	19.1	mg/Kg			P	0.124	P1	P107154
7440-48-4	Cobalt	11.4	mg/Kg			P	0.103	P1	P107154
7440-50-8	Copper	66.5	mg/Kg			P	0.149	P1	P107154
7439-89-6	Iron	25000	mg/Kg			P	2.310	P1	P107154
7439-92-1	Lead	194	mg/Kg	J		P	0.135	P1	P107154
7439-95-4	Magnesium	6000	mg/Kg			P	0.021	P1	P107154
7439-96-5	Manganese	684	mg/Kg			P	1.050	P1	P107154
7439-97-6	Mercury	0.20	mg/Kg		N	CV	0.01	CV2	071304C
7440-02-0	Nickel	26.7	mg/Kg			P	0.198	P1	P107154
7440-09-7	Potassium	2220	mg/Kg	J	N	P	4.310	P1	P107154
7782-49-2	Selenium	1.030	mg/Kg	~~J~~ J		P	0.410	P1	P107154
7440-22-4	Silver	0.138	mg/Kg	U	N	P	0.138	P1	P107154
7440-23-5	Sodium	334	mg/Kg	J		P	48.7	P1	P107154
7440-28-0	Thallium	0.432	mg/Kg	~~U~~ UJ		P	0.432	P1	P107154
7440-62-2	Vanadium	23.2	mg/Kg			P	0.134	P1	P107154
7440-66-6	Zinc	175	mg/Kg			P	0.073	P1	P107154

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3409 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** **Artifacts:**

Comments:

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01									
	Aluminum	2588.40	2482.0	104.3	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Antimony	1026.93	992.0	103.5	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Arsenic	1004.36	996.0	100.8	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Barium	540.48	502.0	107.7	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Beryllium	500.54	493.0	101.5	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Cadmium	516.51	494.0	104.6	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Calcium	10464.50	10180.0	102.8	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Chromium	507.81	490.0	103.6	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Cobalt	518.82	496.0	104.6	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Copper	507.36	490.0	103.5	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Iron	4945.28	5107.0	96.8	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Lead	1023.10	996.0	102.7	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Magnesium	6234.40	6003.0	103.9	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Manganese	521.24	495.0	105.3	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Mercury	4.27	4.1	104.1	90.0 - 110.0	CV	7/13/2004	17:57	071304C
	Nickel	515.40	492.0	104.8	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Potassium	9047.87	10008.0	90.4	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Selenium	1024.40	1005.0	101.9	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Silver	517.50	495.0	104.5	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Sodium	9456.94	10039.0	94.2	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Thallium	1021.64	1027.0	99.5	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Vanadium	488.99	501.0	97.6	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Zinc	1056.90	1000.0	105.7	90.0 - 110.0	P	7/15/2004	10:04	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01									
	Aluminum	10135.43	10000.0	101.4	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Antimony	5049.49	5000.0	101.0	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Arsenic	5092.03	5000.0	101.8	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Barium	10174.54	10000.0	101.7	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Beryllium	255.23	250.0	102.1	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Cadmium	2552.06	2500.0	102.1	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Calcium	25374.39	25000.0	101.5	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Chromium	1011.12	1000.0	101.1	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Cobalt	2533.35	2500.0	101.3	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Copper	1263.25	1250.0	101.1	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Iron	4984.46	5000.0	99.7	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Lead	5065.10	5000.0	101.3	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Magnesium	25333.50	25000.0	101.3	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Manganese	2534.36	2500.0	101.4	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Mercury	4.85	5.0	97.0	90.0 - 110.0	CV	7/13/2004	18:02	071304C
	Nickel	2533.40	2500.0	101.3	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Potassium	25196.79	25000.0	100.8	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Selenium	5159.17	5000.0	103.2	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Silver	1301.76	1250.0	104.1	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Sodium	25192.96	25000.0	100.8	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Thallium	5088.86	5000.0	101.8	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Vanadium	2525.49	2500.0	101.0	90.0 - 110.0	P	7/15/2004	10:31	P107154
	Zinc	2554.90	2500.0	102.2	90.0 - 110.0	P	7/15/2004	10:31	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02									
	Aluminum	9952.80	10000.0	99.5	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Antimony	5187.06	5000.0	103.7	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Arsenic	5309.23	5000.0	106.2	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Barium	10314.08	10000.0	103.1	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Beryllium	261.38	250.0	104.6	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Cadmium	2676.53	2500.0	107.1	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Calcium	26221.47	25000.0	104.9	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Chromium	1024.30	1000.0	102.4	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Cobalt	2559.33	2500.0	102.4	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Copper	1221.45	1250.0	97.7	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Iron	4888.42	5000.0	97.8	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Lead	5177.52	5000.0	103.6	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Magnesium	25337.12	25000.0	101.3	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Manganese	2546.06	2500.0	101.8	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Mercury	5.16	5.0	103.2	90.0 - 110.0	CV	7/13/2004	18:30	071304C
	Nickel	2623.80	2500.0	105.0	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Potassium	25449.85	25000.0	101.8	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Selenium	5264.23	5000.0	105.3	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Silver	1271.24	1250.0	101.7	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Sodium	25899.85	25000.0	103.6	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Thallium	5373.36	5000.0	107.5	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Vanadium	2504.80	2500.0	100.2	90.0 - 110.0	P	7/15/2004	11:05	P107154
	Zinc	2605.88	2500.0	104.2	90.0 - 110.0	P	7/15/2004	11:05	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03									
	Aluminum	10223.00	10000.0	102.2	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Antimony	5259.14	5000.0	105.2	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Arsenic	5378.95	5000.0	107.6	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Barium	10480.92	10000.0	104.8	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Beryllium	265.62	250.0	106.2	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Cadmium	2698.86	2500.0	108.0	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Calcium	26656.98	25000.0	106.6	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Chromium	1046.30	1000.0	104.6	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Cobalt	2605.03	2500.0	104.2	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Copper	1254.30	1250.0	100.3	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Iron	5076.04	5000.0	101.5	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Lead	5274.24	5000.0	105.5	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Magnesium	25862.36	25000.0	103.4	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Manganese	2599.29	2500.0	104.0	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Mercury	4.99	5.0	99.8	90.0 - 110.0	CV	7/13/2004	19:00	071304C
	Nickel	2662.48	2500.0	106.5	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Potassium	25919.21	25000.0	103.7	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Selenium	5298.51	5000.0	106.0	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Silver	1286.55	1250.0	102.9	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Sodium	26101.59	25000.0	104.4	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Thallium	5423.28	5000.0	108.5	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Vanadium	2565.06	2500.0	102.6	90.0 - 110.0	P	7/15/2004	11:30	P107154
	Zinc	2650.30	2500.0	106.0	90.0 - 110.0	P	7/15/2004	11:30	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04									
	Aluminum	9937.05	10000.0	99.4	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Antimony	5135.51	5000.0	102.7	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Arsenic	5258.09	5000.0	105.2	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Barium	10346.58	10000.0	103.5	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Beryllium	257.19	250.0	102.9	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Cadmium	2619.93	2500.0	104.8	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Calcium	25644.20	25000.0	102.6	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Chromium	1005.48	1000.0	100.5	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Cobalt	2507.34	2500.0	100.3	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Copper	1222.84	1250.0	97.8	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Iron	4822.20	5000.0	96.4	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Lead	5082.42	5000.0	101.6	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Magnesium	25037.91	25000.0	100.2	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Manganese	2499.58	2500.0	100.0	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Mercury	5.19	5.0	103.8	90.0 - 110.0	CV	7/13/2004	19:30	071304C
	Nickel	2575.04	2500.0	103.0	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Potassium	25761.21	25000.0	103.0	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Selenium	5197.74	5000.0	104.0	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Silver	1258.94	1250.0	100.7	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Sodium	25950.54	25000.0	103.8	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Thallium	5333.66	5000.0	106.7	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Vanadium	2473.93	2500.0	99.0	90.0 - 110.0	P	7/15/2004	11:58	P107154
	Zinc	2561.84	2500.0	102.5	90.0 - 110.0	P	7/15/2004	11:58	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05									
	Aluminum	9558.50	10000.0	95.6	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Antimony	4804.76	5000.0	96.1	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Arsenic	5049.86	5000.0	101.0	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Barium	10086.53	10000.0	100.9	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Beryllium	247.09	250.0	98.8	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Cadmium	2510.59	2500.0	100.4	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Calcium	24602.08	25000.0	98.4	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Chromium	958.31	1000.0	95.8	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Cobalt	2382.86	2500.0	95.3	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Copper	1165.80	1250.0	93.3	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Iron	4523.18	5000.0	90.5	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Lead	4789.92	5000.0	95.8	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Magnesium	23946.82	25000.0	95.8	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Manganese	2374.56	2500.0	95.0	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Mercury	5.07	5.0	101.4	90.0 - 110.0	CV	7/13/2004	19:58	071304C
	Nickel	2470.21	2500.0	98.8	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Potassium	24803.11	25000.0	99.2	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Selenium	4947.00	5000.0	98.9	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Silver	1339.07	1250.0	107.1	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Sodium	25375.29	25000.0	101.5	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Thallium	5203.51	5000.0	104.1	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Vanadium	2342.08	2500.0	93.7	90.0 - 110.0	P	7/15/2004	12:28	P107154
	Zinc	2452.54	2500.0	98.1	90.0 - 110.0	P	7/15/2004	12:28	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06									
	Aluminum	9490.60	10000.0	94.9	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Antimony	4817.41	5000.0	96.3	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Arsenic	5074.14	5000.0	101.5	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Barium	10219.38	10000.0	102.2	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Beryllium	245.86	250.0	98.3	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Cadmium	2506.17	2500.0	100.2	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Calcium	24458.52	25000.0	97.8	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Chromium	944.54	1000.0	94.5	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Cobalt	2340.59	2500.0	93.6	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Copper	1141.34	1250.0	91.3	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Iron	4554.78	5000.0	91.1	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Lead	4807.28	5000.0	96.1	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Magnesium	23650.14	25000.0	94.6	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Manganese	2329.99	2500.0	93.2	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Mercury	5.10	5.0	102.0	90.0 - 110.0	CV	7/13/2004	20:28	071304C
	Nickel	2446.36	2500.0	97.9	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Potassium	24925.54	25000.0	99.7	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Selenium	4953.73	5000.0	99.1	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Silver	1357.20	1250.0	108.6	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Sodium	25767.36	25000.0	103.1	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Thallium	5257.66	5000.0	105.2	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Vanadium	2287.06	2500.0	91.5	90.0 - 110.0	P	7/15/2004	12:51	P107154
	Zinc	2433.44	2500.0	97.3	90.0 - 110.0	P	7/15/2004	12:51	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07									
	Aluminum	9584.46	10000.0	95.8	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Antimony	4912.70	5000.0	98.3	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Arsenic	5088.48	5000.0	101.8	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Barium	10259.78	10000.0	102.6	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Beryllium	246.05	250.0	98.4	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Cadmium	2512.92	2500.0	100.5	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Calcium	24464.43	25000.0	97.9	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Chromium	946.45	1000.0	94.6	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Cobalt	2349.65	2500.0	94.0	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Copper	1157.29	1250.0	92.6	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Iron	4660.87	5000.0	93.2	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Lead	4840.22	5000.0	96.8	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Magnesium	23816.17	25000.0	95.3	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Manganese	2335.89	2500.0	93.4	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Mercury	5.01	5.0	100.2	90.0 - 110.0	CV	7/13/2004	20:57	071304C
	Nickel	2453.16	2500.0	98.1	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Potassium	25365.29	25000.0	101.5	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Selenium	4982.58	5000.0	99.7	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Silver	1316.42	1250.0	105.3	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Sodium	25969.98	25000.0	103.9	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Thallium	5285.94	5000.0	105.7	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Vanadium	2305.41	2500.0	92.2	90.0 - 110.0	P	7/15/2004	13:26	P107154
	Zinc	2440.58	2500.0	97.6	90.0 - 110.0	P	7/15/2004	13:26	P107154

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08									
	Aluminum	9805.99	10000.0	98.1	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Antimony	4982.15	5000.0	99.6	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Arsenic	5010.18	5000.0	100.2	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Barium	10019.61	10000.0	100.2	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Beryllium	248.45	250.0	99.4	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Cadmium	2486.56	2500.0	99.5	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Calcium	24777.31	25000.0	99.1	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Chromium	985.62	1000.0	98.6	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Cobalt	2465.33	2500.0	98.6	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Copper	1224.20	1250.0	97.9	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Iron	4835.80	5000.0	96.7	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Lead	4961.24	5000.0	99.2	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Magnesium	24807.01	25000.0	99.2	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Manganese	2461.41	2500.0	98.5	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Mercury	4.98	5.0	99.6	90.0 - 110.0	CV	7/13/2004	21:22	071304C
	Nickel	2478.59	2500.0	99.1	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Potassium	24743.06	25000.0	99.0	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Selenium	5116.10	5000.0	102.3	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Silver	1301.28	1250.0	104.1	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Sodium	24810.20	25000.0	99.2	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Thallium	5038.65	5000.0	100.8	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Vanadium	2456.30	2500.0	98.3	90.0 - 110.0	P	7/15/2004	14:07	P107154
	Zinc	2516.01	2500.0	100.6	90.0 - 110.0	P	7/15/2004	14:07	P107154

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV09									
	Aluminum	9761.54	10000.0	97.6	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Antimony	5006.96	5000.0	100.1	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Arsenic	5067.24	5000.0	101.3	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Barium	10030.46	10000.0	100.3	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Beryllium	250.88	250.0	100.4	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Cadmium	2518.56	2500.0	100.7	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Calcium	25010.40	25000.0	100.0	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Chromium	992.60	1000.0	99.3	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Cobalt	2480.12	2500.0	99.2	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Copper	1220.54	1250.0	97.6	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Iron	4889.32	5000.0	97.8	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Lead	5002.70	5000.0	100.1	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Magnesium	24877.05	25000.0	99.5	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Manganese	2471.66	2500.0	98.9	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Mercury	5.03	5.0	100.6	90.0 - 110.0	CV	7/13/2004	21:34	071304C
	Nickel	2494.72	2500.0	99.8	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Potassium	24626.33	25000.0	98.5	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Selenium	5145.26	5000.0	102.9	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Silver	1306.18	1250.0	104.5	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Sodium	24855.49	25000.0	99.4	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Thallium	5058.48	5000.0	101.2	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Vanadium	2460.29	2500.0	98.4	90.0 - 110.0	P	7/15/2004	14:31	P107154
	Zinc	2534.70	2500.0	101.4	90.0 - 110.0	P	7/15/2004	14:31	P107154

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV36									
	Aluminum	9762.80	10000.0	97.6	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Antimony	5057.06	5000.0	101.1	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Arsenic	5265.08	5000.0	105.3	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Barium	10324.69	10000.0	103.2	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Beryllium	254.05	250.0	101.6	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Cadmium	2582.99	2500.0	103.3	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Calcium	25325.23	25000.0	101.3	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Chromium	972.22	1000.0	97.2	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Cobalt	2425.44	2500.0	97.0	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Copper	1177.69	1250.0	94.2	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Iron	4637.71	5000.0	92.8	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Lead	4914.12	5000.0	98.3	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Magnesium	24496.46	25000.0	98.0	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Manganese	2408.75	2500.0	96.4	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Nickel	2518.87	2500.0	100.8	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Potassium	25710.20	25000.0	102.8	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Selenium	5291.54	5000.0	105.8	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Silver	1332.94	1250.0	106.6	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Sodium	26248.96	25000.0	105.0	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Thallium	5380.38	5000.0	107.6	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Vanadium	2369.13	2500.0	94.8	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Zinc	2503.02	2500.0	100.1	90.0 - 110.0	P	7/16/2004	03:15	P107154

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV37									
	Aluminum	9593.74	10000.0	95.9	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Antimony	4991.07	5000.0	99.8	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Arsenic	5192.98	5000.0	103.9	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Barium	10178.74	10000.0	101.8	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Beryllium	249.52	250.0	99.8	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Cadmium	2539.92	2500.0	101.6	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Calcium	24860.61	25000.0	99.4	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Chromium	954.38	1000.0	95.4	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Cobalt	2382.90	2500.0	95.3	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Copper	1157.37	1250.0	92.6	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Iron	4515.42	5000.0	90.3	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Lead	4856.04	5000.0	97.1	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Magnesium	24065.13	25000.0	96.3	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Manganese	2363.52	2500.0	94.5	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Nickel	2479.54	2500.0	99.2	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Potassium	25293.12	25000.0	101.2	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Selenium	5263.64	5000.0	105.3	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Silver	1312.90	1250.0	105.0	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Sodium	25972.70	25000.0	103.9	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Thallium	5322.28	5000.0	106.4	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Vanadium	2322.14	2500.0	92.9	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Zinc	2461.10	2500.0	98.4	90.0 - 110.0	P	7/16/2004	03:41	P107154

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV38									
	Aluminum	9601.94	10000.0	96.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Antimony	5001.62	5000.0	100.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Arsenic	5248.07	5000.0	105.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Barium	10230.46	10000.0	102.3	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Beryllium	252.16	250.0	100.9	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Cadmium	2572.98	2500.0	102.9	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Calcium	25103.04	25000.0	100.4	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Chromium	961.18	1000.0	96.1	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Cobalt	2397.10	2500.0	95.9	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Copper	1153.26	1250.0	92.3	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Iron	4591.92	5000.0	91.8	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Lead	4875.89	5000.0	97.5	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Magnesium	24150.30	25000.0	96.6	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Manganese	2374.12	2500.0	95.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Nickel	2502.68	2500.0	100.1	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Potassium	25255.55	25000.0	101.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Selenium	5251.14	5000.0	105.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Silver	1321.64	1250.0	105.7	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Sodium	26038.23	25000.0	104.2	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Thallium	5357.04	5000.0	107.1	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Vanadium	2324.23	2500.0	93.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Zinc	2477.18	2500.0	99.1	90.0 - 110.0	P	7/16/2004	04:10	P107154

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV39									
	Aluminum	9591.60	10000.0	95.9	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Antimony	5002.95	5000.0	100.1	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Arsenic	5236.67	5000.0	104.7	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Barium	10265.41	10000.0	102.7	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Beryllium	250.59	250.0	100.2	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Cadmium	2551.64	2500.0	102.1	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Calcium	24984.10	25000.0	99.9	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Chromium	952.26	1000.0	95.2	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Cobalt	2374.65	2500.0	95.0	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Copper	1148.34	1250.0	91.9	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Iron	4529.58	5000.0	90.6	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Lead	4838.01	5000.0	96.8	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Magnesium	23970.84	25000.0	95.9	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Manganese	2362.08	2500.0	94.5	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Nickel	2482.45	2500.0	99.3	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Potassium	25325.49	25000.0	101.3	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Selenium	5254.08	5000.0	105.1	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Silver	1323.93	1250.0	105.9	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Sodium	25802.09	25000.0	103.2	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Thallium	5366.88	5000.0	107.3	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Vanadium	2303.42	2500.0	92.1	90.0 - 110.0	P	7/16/2004	04:37	P107154
	Zinc	2458.29	2500.0	98.3	90.0 - 110.0	P	7/16/2004	04:37	P107154

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV40									
	Aluminum	9583.36	10000.0	95.8	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Antimony	4975.54	5000.0	99.5	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Arsenic	5223.50	5000.0	104.5	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Barium	10242.57	10000.0	102.4	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Beryllium	249.85	250.0	99.9	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Cadmium	2550.13	2500.0	102.0	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Calcium	24922.86	25000.0	99.7	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Chromium	949.76	1000.0	95.0	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Cobalt	2367.30	2500.0	94.7	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Copper	1144.68	1250.0	91.6	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Iron	4501.90	5000.0	90.0	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Lead	4809.94	5000.0	96.2	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Magnesium	23895.40	25000.0	95.6	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Manganese	2356.33	2500.0	94.3	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Nickel	2474.87	2500.0	99.0	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Potassium	25291.82	25000.0	101.2	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Selenium	5234.07	5000.0	104.7	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Silver	1319.30	1250.0	105.5	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Sodium	25939.37	25000.0	103.8	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Thallium	5397.85	5000.0	108.0	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Vanadium	2292.33	2500.0	91.7	90.0 - 110.0	P	7/16/2004	05:00	P107154
	Zinc	2450.22	2500.0	98.0	90.0 - 110.0	P	7/16/2004	05:00	P107154

Metals

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CRDL STANDARD FOR AA & ICP

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

AA CRDL Standard Source:

ICP CRDL Standard Source: INOR-VEN

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRI03									
	Aluminum	410.01	400.0	102.5	75 - 125	P	7/16/2004	02:06	P107154
	Antimony	121.09	120.0	100.9	75 - 125	P	7/16/2004	02:06	P107154
	Arsenic	20.57	20.0	102.8	75 - 125	P	7/16/2004	02:06	P107154
	Barium	384.44	400.0	96.1	75 - 125	P	7/16/2004	02:06	P107154
	Beryllium	10.48	10.0	104.8	75 - 125	P	7/16/2004	02:06	P107154
	Cadmium	9.70	10.0	97.0	75 - 125	P	7/16/2004	02:06	P107154
	Calcium	9684.86	10000.0	96.8	75 - 125	P	7/16/2004	02:06	P107154
	Chromium	20.68	20.0	103.4	75 - 125	P	7/16/2004	02:06	P107154
	Cobalt	102.20	100.0	102.2	75 - 125	P	7/16/2004	02:06	P107154
	Copper	50.56	50.0	101.1	75 - 125	P	7/16/2004	02:06	P107154
	Iron	209.505	200.0	104.75	75 - 125	P	7/16/2004	02:06	P107154
	Lead	6.53	6.0	108.8	75 - 125	P	7/16/2004	02:06	P107154
	Magnesium	9682.30	10000.0	96.8	75 - 125	P	7/16/2004	02:06	P107154
	Manganese	31.60	30.0	105.3	75 - 125	P	7/16/2004	02:06	P107154
	Nickel	84.32	80.0	105.4	75 - 125	P	7/16/2004	02:06	P107154
	Selenium	12.42	10.0	124.2	75 - 125	P	7/16/2004	02:06	P107154
	Silver	21.57	20.0	107.8	75 - 125	P	7/16/2004	02:06	P107154
	Thallium	15.16	20.0	75.8	75 - 125	P	7/16/2004	02:06	P107154
	Vanadium	104.99	100.0	105.0	75 - 125	P	7/16/2004	02:06	P107154
	Zinc	42.10	40.0	105.2	75 - 125	P	7/16/2004	02:06	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
ICB01										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/15/2004	10:07	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/15/2004	10:07	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/15/2004	10:07	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/15/2004	10:07	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/15/2004	10:07	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/15/2004	10:07	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/15/2004	10:07	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/15/2004	10:07	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/15/2004	10:07	P107154
	Copper	0.7	+/-25.0	U	0.7	25.0	P	7/15/2004	10:07	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/15/2004	10:07	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/15/2004	10:07	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/15/2004	10:07	P107154
	Manganese	0.2	+/-15.0	U	0.2	15.0	P	7/15/2004	10:07	P107154
	Mercury	0.006	+/-0.200	U	0.006	0.200	CV	7/13/2004	18:00	071304C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/15/2004	10:07	P107154
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/15/2004	10:07	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/15/2004	10:07	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/15/2004	10:07	P107154
	Sodium	-267.5	+/-5000.0	J	189.5	5000.0	P	7/15/2004	10:07	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/15/2004	10:07	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/15/2004	10:07	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/15/2004	10:07	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB01										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/15/2004	10:33	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/15/2004	10:33	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/15/2004	10:33	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/15/2004	10:33	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/15/2004	10:33	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/15/2004	10:33	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/15/2004	10:33	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/15/2004	10:33	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/15/2004	10:33	P107154
	Copper	0.7	+/-25.0	U	0.7	25.0	P	7/15/2004	10:33	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/15/2004	10:33	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/15/2004	10:33	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/15/2004	10:33	P107154
	Manganese	-0.3	+/-15.0	J	0.2	15.0	P	7/15/2004	10:33	P107154
	Mercury	0.029	+/-0.200	J	0.006	0.200	CV	7/13/2004	18:05	071304C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/15/2004	10:33	P107154
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/15/2004	10:33	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/15/2004	10:33	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/15/2004	10:33	P107154
	Sodium	189.5	+/-5000.0	U	189.5	5000.0	P	7/15/2004	10:33	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/15/2004	10:33	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/15/2004	10:33	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/15/2004	10:33	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB02										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/15/2004	11:07	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/15/2004	11:07	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/15/2004	11:07	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/15/2004	11:07	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/15/2004	11:07	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/15/2004	11:07	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/15/2004	11:07	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/15/2004	11:07	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/15/2004	11:07	P107154
	Copper	-1.8	+/-25.0	J	0.7	25.0	P	7/15/2004	11:07	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/15/2004	11:07	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/15/2004	11:07	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/15/2004	11:07	P107154
	Manganese	0.2	+/-15.0	U	0.2	15.0	P	7/15/2004	11:07	P107154
	Mercury	0.145	+/-0.200	J	0.006	0.200	CV	7/13/2004	18:33	071304C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/15/2004	11:07	P107154
	Potassium	-153.4	+/-5000.0	J	51.0	5000.0	P	7/15/2004	11:07	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/15/2004	11:07	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/15/2004	11:07	P107154
	Sodium	-483.6	+/-5000.0	J	189.5	5000.0	P	7/15/2004	11:07	P107154
	Thallium	7.1	+/-10.0	J	5.8	10.0	P	7/15/2004	11:07	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/15/2004	11:07	P107154
	Zinc	-14.9	+/-20.0	J	8.1	20.0	P	7/15/2004	11:07	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB03										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/15/2004	11:34	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/15/2004	11:34	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/15/2004	11:34	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/15/2004	11:34	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/15/2004	11:34	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/15/2004	11:34	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/15/2004	11:34	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/15/2004	11:34	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/15/2004	11:34	P107154
	Copper	-2.1	+/-25.0	J	0.7	25.0	P	7/15/2004	11:34	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/15/2004	11:34	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/15/2004	11:34	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/15/2004	11:34	P107154
	Manganese	0.4	+/-15.0	J	0.2	15.0	P	7/15/2004	11:34	P107154
	Mercury	0.096	+/-0.200	J	0.006	0.200	CV	7/13/2004	19:02	071304C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/15/2004	11:34	P107154
	Potassium	-157.4	+/-5000.0	J	51.0	5000.0	P	7/15/2004	11:34	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/15/2004	11:34	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/15/2004	11:34	P107154
	Sodium	-494.9	+/-5000.0	J	189.5	5000.0	P	7/15/2004	11:34	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/15/2004	11:34	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/15/2004	11:34	P107154
	Zinc	-14.1	+/-20.0	J	8.1	20.0	P	7/15/2004	11:34	P107154

Metals
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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB04										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/15/2004	12:00	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/15/2004	12:00	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/15/2004	12:00	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/15/2004	12:00	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/15/2004	12:00	P107154
	Cadmium	-1.3	+/-5.0	J	1.0	5.0	P	7/15/2004	12:00	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/15/2004	12:00	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/15/2004	12:00	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/15/2004	12:00	P107154
	Copper	-2.4	+/-25.0	J	0.7	25.0	P	7/15/2004	12:00	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/15/2004	12:00	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/15/2004	12:00	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/15/2004	12:00	P107154
	Manganese	0.2	+/-15.0	U	0.2	15.0	P	7/15/2004	12:00	P107154
	Mercury	-0.018	+/-0.200	J	0.006	0.200	CV	7/13/2004	19:32	071304C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/15/2004	12:00	P107154
	Potassium	-133.6	+/-5000.0	J	51.0	5000.0	P	7/15/2004	12:00	P107154
	Selenium	7.1	+/-10.0	J	5.2	10.0	P	7/15/2004	12:00	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/15/2004	12:00	P107154
	Sodium	-409.8	+/-5000.0	J	189.5	5000.0	P	7/15/2004	12:00	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/15/2004	12:00	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/15/2004	12:00	P107154
	Zinc	-14.6	+/-20.0	J	8.1	20.0	P	7/15/2004	12:00	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB05										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/15/2004	12:30	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/15/2004	12:30	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/15/2004	12:30	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/15/2004	12:30	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/15/2004	12:30	P107154
	Cadmium	-1.2	+/-5.0	J	1.0	5.0	P	7/15/2004	12:30	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/15/2004	12:30	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/15/2004	12:30	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/15/2004	12:30	P107154
	Copper	-2.7	+/-25.0	J	0.7	25.0	P	7/15/2004	12:30	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/15/2004	12:30	P107154
	Lead	-1.9	+/-5.0	J	1.8	5.0	P	7/15/2004	12:30	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/15/2004	12:30	P107154
	Manganese	0.2	+/-15.0	U	0.2	15.0	P	7/15/2004	12:30	P107154
	Mercury	0.106	+/-0.200	J	0.006	0.200	CV	7/13/2004	20:00	071304C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/15/2004	12:30	P107154
	Potassium	-142.1	+/-5000.0	J	51.0	5000.0	P	7/15/2004	12:30	P107154
	Selenium	6.8	+/-10.0	J	5.2	10.0	P	7/15/2004	12:30	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/15/2004	12:30	P107154
	Sodium	-473.5	+/-5000.0	J	189.5	5000.0	P	7/15/2004	12:30	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/15/2004	12:30	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/15/2004	12:30	P107154
	Zinc	-14.6	+/-20.0	J	8.1	20.0	P	7/15/2004	12:30	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB06										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/15/2004	12:53	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/15/2004	12:53	P107154
	Arsenic	5.4	+/-10.0	J	4.8	10.0	P	7/15/2004	12:53	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/15/2004	12:53	P107154
	Beryllium	1.2	+/-5.0	J	1.1	5.0	P	7/15/2004	12:53	P107154
	Cadmium	-1.2	+/-5.0	J	1.0	5.0	P	7/15/2004	12:53	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/15/2004	12:53	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/15/2004	12:53	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/15/2004	12:53	P107154
	Copper	-3.0	+/-25.0	J	0.7	25.0	P	7/15/2004	12:53	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/15/2004	12:53	P107154
	Lead	-3.8	+/-5.0	J	1.8	5.0	P	7/15/2004	12:53	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/15/2004	12:53	P107154
	Manganese	0.2	+/-15.0	J	0.2	15.0	P	7/15/2004	12:53	P107154
	Mercury	0.140	+/-0.200	J	0.006	0.200	CV	7/13/2004	20:31	071304C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/15/2004	12:53	P107154
	Potassium	-153.8	+/-5000.0	J	51.0	5000.0	P	7/15/2004	12:53	P107154
	Selenium	5.7	+/-10.0	J	5.2	10.0	P	7/15/2004	12:53	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/15/2004	12:53	P107154
	Sodium	-567.8	+/-5000.0	J	189.5	5000.0	P	7/15/2004	12:53	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/15/2004	12:53	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/15/2004	12:53	P107154
	Zinc	-14.6	+/-20.0	J	8.1	20.0	P	7/15/2004	12:53	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB07										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/15/2004	13:31	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/15/2004	13:31	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/15/2004	13:31	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/15/2004	13:31	P107154
	Beryllium	1.5	+/-5.0	J	1.1	5.0	P	7/15/2004	13:31	P107154
	Cadmium	-2.0	+/-5.0	J	1.0	5.0	P	7/15/2004	13:31	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/15/2004	13:31	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/15/2004	13:31	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/15/2004	13:31	P107154
	Copper	-3.6	+/-25.0	J	0.7	25.0	P	7/15/2004	13:31	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/15/2004	13:31	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/15/2004	13:31	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/15/2004	13:31	P107154
	Manganese	-0.3	+/-15.0	J	0.2	15.0	P	7/15/2004	13:31	P107154
	Mercury	0.059	+/-0.200	J	0.006	0.200	CV	7/13/2004	20:59	071304C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/15/2004	13:31	P107154
	Potassium	-166.2	+/-5000.0	J	51.0	5000.0	P	7/15/2004	13:31	P107154
	Selenium	6.6	+/-10.0	J	5.2	10.0	P	7/15/2004	13:31	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/15/2004	13:31	P107154
	Sodium	-962.8	+/-5000.0	J	189.5	5000.0	P	7/15/2004	13:31	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/15/2004	13:31	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/15/2004	13:31	P107154
	Zinc	-15.2	+/-20.0	J	8.1	20.0	P	7/15/2004	13:31	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB08										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/15/2004	14:09	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/15/2004	14:09	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/15/2004	14:09	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/15/2004	14:09	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/15/2004	14:09	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/15/2004	14:09	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/15/2004	14:09	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/15/2004	14:09	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/15/2004	14:09	P107154
	Copper	0.7	+/-25.0	U	0.7	25.0	P	7/15/2004	14:09	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/15/2004	14:09	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/15/2004	14:09	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/15/2004	14:09	P107154
	Manganese	-0.3	+/-15.0	J	0.2	15.0	P	7/15/2004	14:09	P107154
	Mercury	0.050	+/-0.200	J	0.006	0.200	CV	7/13/2004	21:24	071304C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/15/2004	14:09	P107154
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/15/2004	14:09	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/15/2004	14:09	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/15/2004	14:09	P107154
	Sodium	-244.3	+/-5000.0	J	189.5	5000.0	P	7/15/2004	14:09	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/15/2004	14:09	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/15/2004	14:09	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/15/2004	14:09	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB09										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/15/2004	14:33	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/15/2004	14:33	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/15/2004	14:33	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/15/2004	14:33	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/15/2004	14:33	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/15/2004	14:33	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/15/2004	14:33	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/15/2004	14:33	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/15/2004	14:33	P107154
	Copper	0.7	+/-25.0	U	0.7	25.0	P	7/15/2004	14:33	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/15/2004	14:33	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/15/2004	14:33	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/15/2004	14:33	P107154
	Manganese	0.2	+/-15.0	U	0.2	15.0	P	7/15/2004	14:33	P107154
	Mercury	0.029	+/-0.200	J	0.006	0.200	CV	7/13/2004	21:37	071304C
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/15/2004	14:33	P107154
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/15/2004	14:33	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/15/2004	14:33	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/15/2004	14:33	P107154
	Sodium	-336.5	+/-5000.0	J	189.5	5000.0	P	7/15/2004	14:33	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/15/2004	14:33	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/15/2004	14:33	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/15/2004	14:33	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB36										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/16/2004	03:17	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/16/2004	03:17	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/16/2004	03:17	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/16/2004	03:17	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/16/2004	03:17	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/16/2004	03:17	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/16/2004	03:17	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/16/2004	03:17	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/16/2004	03:17	P107154
	Copper	-1.3	+/-25.0	J	0.7	25.0	P	7/16/2004	03:17	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/16/2004	03:17	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/16/2004	03:17	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/16/2004	03:17	P107154
	Manganese	-0.4	+/-15.0	J	0.2	15.0	P	7/16/2004	03:17	P107154
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/16/2004	03:17	P107154
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/16/2004	03:17	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/16/2004	03:17	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/16/2004	03:17	P107154
	Sodium	-413.9	+/-5000.0	J	189.5	5000.0	P	7/16/2004	03:17	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/16/2004	03:17	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/16/2004	03:17	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/16/2004	03:17	P107154

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB37										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/16/2004	03:43	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/16/2004	03:43	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/16/2004	03:43	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/16/2004	03:43	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/16/2004	03:43	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/16/2004	03:43	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/16/2004	03:43	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/16/2004	03:43	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/16/2004	03:43	P107154
	Copper	-1.5	+/-25.0	J	0.7	25.0	P	7/16/2004	03:43	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/16/2004	03:43	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/16/2004	03:43	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/16/2004	03:43	P107154
	Manganese	-0.5	+/-15.0	J	0.2	15.0	P	7/16/2004	03:43	P107154
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/16/2004	03:43	P107154
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/16/2004	03:43	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/16/2004	03:43	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/16/2004	03:43	P107154
	Sodium	-292.5	+/-5000.0	J	189.5	5000.0	P	7/16/2004	03:43	P107154
	Thallium	8.0	+/-10.0	J	5.8	10.0	P	7/16/2004	03:43	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/16/2004	03:43	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/16/2004	03:43	P107154

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB38										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/16/2004	04:12	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/16/2004	04:12	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/16/2004	04:12	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/16/2004	04:12	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/16/2004	04:12	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/16/2004	04:12	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/16/2004	04:12	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/16/2004	04:12	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/16/2004	04:12	P107154
	Copper	-1.4	+/-25.0	J	0.7	25.0	P	7/16/2004	04:12	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/16/2004	04:12	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/16/2004	04:12	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/16/2004	04:12	P107154
	Manganese	-0.5	+/-15.0	J	0.2	15.0	P	7/16/2004	04:12	P107154
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/16/2004	04:12	P107154
	Potassium	-74.0	+/-5000.0	J	51.0	5000.0	P	7/16/2004	04:12	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/16/2004	04:12	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/16/2004	04:12	P107154
	Sodium	-659.7	+/-5000.0	J	189.5	5000.0	P	7/16/2004	04:12	P107154
	Thallium	7.1	+/-10.0	J	5.8	10.0	P	7/16/2004	04:12	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/16/2004	04:12	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/16/2004	04:12	P107154

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB39										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/16/2004	04:39	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/16/2004	04:39	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/16/2004	04:39	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/16/2004	04:39	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/16/2004	04:39	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/16/2004	04:39	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/16/2004	04:39	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/16/2004	04:39	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/16/2004	04:39	P107154
	Copper	-2.2	+/-25.0	J	0.7	25.0	P	7/16/2004	04:39	P107154
	Iron	54.7	+/-100.0	J	29.0	100.0	P	7/16/2004	04:39	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/16/2004	04:39	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/16/2004	04:39	P107154
	Manganese	0.4	+/-15.0	J	0.2	15.0	P	7/16/2004	04:39	P107154
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/16/2004	04:39	P107154
	Potassium	-64.1	+/-5000.0	J	51.0	5000.0	P	7/16/2004	04:39	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/16/2004	04:39	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/16/2004	04:39	P107154
	Sodium	-398.7	+/-5000.0	J	189.5	5000.0	P	7/16/2004	04:39	P107154
	Thallium	7.6	+/-10.0	J	5.8	10.0	P	7/16/2004	04:39	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/16/2004	04:39	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/16/2004	04:39	P107154

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB40										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/16/2004	05:02	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/16/2004	05:02	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/16/2004	05:02	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/16/2004	05:02	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/16/2004	05:02	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/16/2004	05:02	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/16/2004	05:02	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/16/2004	05:02	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/16/2004	05:02	P107154
	Copper	-1.4	+/-25.0	J	0.7	25.0	P	7/16/2004	05:02	P107154
	Iron	47.7	+/-100.0	J	29.0	100.0	P	7/16/2004	05:02	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/16/2004	05:02	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/16/2004	05:02	P107154
	Manganese	0.4	+/-15.0	J	0.2	15.0	P	7/16/2004	05:02	P107154
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/16/2004	05:02	P107154
	Potassium	-60.2	+/-5000.0	J	51.0	5000.0	P	7/16/2004	05:02	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/16/2004	05:02	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/16/2004	05:02	P107154
	Sodium	-516.8	+/-5000.0	J	189.5	5000.0	P	7/16/2004	05:02	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/16/2004	05:02	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/16/2004	05:02	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/16/2004	05:02	P107154

Metals
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PREPARATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Instrument: CV2

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	MDL mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB16177BL		**SOIL**		**Batch Number:**	**PB16177**			**Prep Date:**	**7/13/2004**	
	Mercury	-0.002	<0.010	U	0.006	0.010	CV	7/13/2004	18:14	071304C
PB16183BL		**SOIL**		**Batch Number:**	**PB16183**			**Prep Date:**	**7/13/2004**	
	Aluminum	3.910	<20.000	J	0.629	20.000	P	7/16/2004	04:00	P107154
	Antimony	-0.828	<6.000	J	0.563	6.000	P	7/16/2004	04:00	P107154
	Arsenic	0.182	<1.000	U	0.237	1.000	P	7/16/2004	04:00	P107154
	Barium	-0.396	<20.000	J	0.022	20.000	P	7/16/2004	04:00	P107154
	Beryllium	0.084	<0.500	J	0.004	0.500	P	7/16/2004	04:00	P107154
	Cadmium	-0.095	<0.500	J	0.046	0.500	P	7/16/2004	04:00	P107154
	Calcium	2.247	<500.000	J	0.350	500.000	P	7/16/2004	04:00	P107154
	Chromium	0.002	<1.000	U	0.095	1.000	P	7/16/2004	04:00	P107154
	Cobalt	-0.138	<5.000	J	0.079	5.000	P	7/16/2004	04:00	P107154
	Copper	-0.165	<2.500	J	0.114	2.500	P	7/16/2004	04:00	P107154
	Iron	-0.563	<10.000	U	1.762	10.000	P	7/16/2004	04:00	P107154
	Lead	0.104	<0.500	J	0.103	0.500	P	7/16/2004	04:00	P107154
	Magnesium	-0.418	<500.000	J	0.016	500.000	P	7/16/2004	04:00	P107154
	Manganese	-0.074	<1.500	U	0.802	1.500	P	7/16/2004	04:00	P107154
	Nickel	-0.186	<4.000	J	0.151	4.000	P	7/16/2004	04:00	P107154
	Potassium	-2.306	<500.000	U	3.289	500.000	P	7/16/2004	04:00	P107154
	Selenium	-0.024	<1.000	U	0.313	1.000	P	7/16/2004	04:00	P107154
	Silver	0.020	<1.000	U	0.105	1.000	P	7/16/2004	04:00	P107154
	Sodium	-37.044	<500.000	U	37.167	500.000	P	7/16/2004	04:00	P107154
	Thallium	-0.358	<1.000	J	0.330	1.000	P	7/16/2004	04:00	P107154
	Vanadium	0.048	<5.000	U	0.102	5.000	P	7/16/2004	04:00	P107154
	Zinc	-0.268	<2.000	J	0.056	2.000	P	7/16/2004	04:00	P107154

Metals

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INTERFERENCE CHECK SAMPLE

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

ICS Source: **Instrument ID:** P1

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-A03								
	Aluminum	480000	519000	92.5	80 - 120	7/16/2004	02:11	P107154
	Antimony	-5.0			0 - 0	7/16/2004	02:11	P107154
	Arsenic	-1.9			0 - 0	7/16/2004	02:11	P107154
	Barium	-2.6			0 - 0	7/16/2004	02:11	P107154
	Beryllium	0.095			0 - 0	7/16/2004	02:11	P107154
	Cadmium	7.5			0 - 0	7/16/2004	02:11	P107154
	Calcium	431000	491900	87.6	80 - 120	7/16/2004	02:11	P107154
	Chromium	18.0	20	90.0	80 - 120	7/16/2004	02:11	P107154
	Cobalt	-0.28			0 - 0	7/16/2004	02:11	P107154
	Copper	4.8			0 - 0	7/16/2004	02:11	P107154
	Iron	167000	195000	85.6	80 - 120	7/16/2004	02:11	P107154
	Lead	3.8			0 - 0	7/16/2004	02:11	P107154
	Magnesium	509000	542000	93.9	80 - 120	7/16/2004	02:11	P107154
	Manganese	-3.2			0 - 0	7/16/2004	02:11	P107154
	Nickel	-2.8			0 - 0	7/16/2004	02:11	P107154
	Potassium	81.9			0 - 0	7/16/2004	02:11	P107154
	Selenium	2.9			0 - 0	7/16/2004	02:11	P107154
	Silver	1.1			0 - 0	7/16/2004	02:11	P107154
	Sodium	-347			0 - 0	7/16/2004	02:11	P107154
	Thallium	-17.7			0 - 0	7/16/2004	02:11	P107154
	Vanadium	-2.0			0 - 0	7/16/2004	02:11	P107154
	Zinc	-2.0			0 - 0	7/16/2004	02:11	P107154

Metals

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INTERFERENCE CHECK SAMPLE

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

ICS Source: **Instrument ID:** P1

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-AB03								
	Aluminum	493000	514000	95.9	80 - 120	7/16/2004	02:16	P107154
	Antimony	566	518	109.3	80 - 120	7/16/2004	02:16	P107154
	Arsenic	94.3	102	92.5	80 - 120	7/16/2004	02:16	P107154
	Barium	502	456	110.1	80 - 120	7/16/2004	02:16	P107154
	Beryllium	433	458	94.5	80 - 120	7/16/2004	02:16	P107154
	Cadmium	891	910	97.9	80 - 120	7/16/2004	02:16	P107154
	Calcium	440000	489000	90.0	80 - 120	7/16/2004	02:16	P107154
	Chromium	445	455	97.8	80 - 120	7/16/2004	02:16	P107154
	Cobalt	452	430	105.1	80 - 120	7/16/2004	02:16	P107154
	Copper	506	506	100.0	80 - 120	7/16/2004	02:16	P107154
	Iron	171000	194600	87.9	80 - 120	7/16/2004	02:16	P107154
	Lead	51.7	49	105.5	80 - 120	7/16/2004	02:16	P107154
	Magnesium	519000	540600	96.0	80 - 120	7/16/2004	02:16	P107154
	Manganese	446	438	101.8	80 - 120	7/16/2004	02:16	P107154
	Nickel	866	846	102.4	80 - 120	7/16/2004	02:16	P107154
	Potassium	65.9			80 - 120	7/16/2004	02:16	P107154
	Selenium	43.7	47	93.0	80 - 120	7/16/2004	02:16	P107154
	Silver	209	196	106.6	80 - 120	7/16/2004	02:16	P107154
	Sodium	-15.7			80 - 120	7/16/2004	02:16	P107154
	Thallium	78.9	89	88.7	80 - 120	7/16/2004	02:16	P107154
	Vanadium	447	452	98.9	80 - 120	7/16/2004	02:16	P107154
	Zinc	975	958	101.8	80 - 120	7/16/2004	02:16	P107154

Metals
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MATRIX SPIKE SUMMARY

Client: Chazen Companies Level: LOW SDG No.: S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Sample ID:** S3520-02 **Client ID:** AB-REC-29-85-15-PCS

Percent Solids for Sample: 89.80 **Spiked ID:** S3520-02S **Percent Solids for Spike Sample:** 89.80

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.2522		0.0136		0.22	108.5		CV

Metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

Client: Chazen Companies Level: LOW SDG No.: S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Sample ID:** S3520-02 **Client ID:** AB-REC-29-85-15-PCSD

Percent Solids for Sample: 89.80 **Spiked ID:** S3520-02SD **Percent Solids for Spike Sample:** 89.80

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.2973		0.0136		0.22	129.0	N	CV

Metals
- 5a -
MATRIX SPIKE SUMMARY

Client: Chazen Companies Level: LOW SDG No.: S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Sample ID:** S3409-10 **Client ID:** SB-290-4S

Percent Solids for Sample: 92.80 **Spiked ID:** S3409-10S **Percent Solids for Spike Sample:** 92.80

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	80 - 120	8062.4130		6746.8630		215.52	610.4		P
Antimony	mg/Kg	80 - 120	79.2382		0.6067	U	86.21	91.9		P
Arsenic	mg/Kg	80 - 120	90.7769		7.9192		86.21	96.1		P
Barium	mg/Kg	80 - 120	275.5609		91.4046		215.52	85.4		P
Beryllium	mg/Kg	80 - 120	17.8615		0.3788	J	21.55	81.1		P
Cadmium	mg/Kg	80 - 120	19.5323		0.6040		21.55	87.8		P
Chromium	mg/Kg	80 - 120	43.0286		6.5129		43.10	84.7		P
Cobalt	mg/Kg	80 - 120	24.7220		6.4564		21.55	84.8		P
Copper	mg/Kg	80 - 120	45.0043		15.9132		32.33	90.0		P
Iron	mg/Kg	80 - 120	14218.4500		13157.9600		323.28	328.0		P
Lead	mg/Kg	80 - 120	112.5997		18.0657		107.76	87.7		P
Magnesium	mg/Kg	80 - 120	19536.1700		17452.4600		215.52	966.8		P
Manganese	mg/Kg	80 - 120	437.0948		442.9332		21.55	-27.1		P
Nickel	mg/Kg	80 - 120	60.0991		12.9995		53.88	87.4		P
Potassium	mg/Kg	80 - 120	2599.5130		931.8912		1077.59	154.8	N	P
Selenium	mg/Kg	80 - 120	190.5054		0.3551	J	215.52	88.2		P
Silver	mg/Kg	80 - 120	12.5318		0.1131	U	8.08	155.1	N	P
Sodium	mg/Kg	80 - 120	435.2274	J	82.3836	J	323.28	109.1		P
Thallium	mg/Kg	80 - 120	205.4908		0.3556	U	215.52	95.3		P
Vanadium	mg/Kg	80 - 120	35.4246		8.2812		32.33	84.0		P
Zinc	mg/Kg	80 - 120	69.6148		47.0151		21.55	104.9		P

Metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

Client: Chazen Companies Level: LOW SDG No.: S3409

Contract: Chazen Companies Lab Code: CHEMED Case No.: S3409 SAS No.: S3409

Matrix: SOIL Sample ID: S3409-10 Client ID: SB-290-4SD

Percent Solids for Sample: 92.80 Spiked ID: S3409-10SD Percent Solids for Spike Sample: 92.80

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	80 - 120	8021.7800		6746.8630		215.52	591.6		P
Antimony	mg/Kg	80 - 120	79.2015		0.6067	U	86.21	91.9		P
Arsenic	mg/Kg	80 - 120	90.5700		7.9192		86.21	95.9		P
Barium	mg/Kg	80 - 120	273.9973		91.4046		215.52	84.7		P
Beryllium	mg/Kg	80 - 120	17.7328		0.3788	J	21.55	80.5		P
Cadmium	mg/Kg	80 - 120	19.5059		0.6040		21.55	87.7		P
Chromium	mg/Kg	80 - 120	42.7128		6.5129		43.10	84.0		P
Cobalt	mg/Kg	80 - 120	24.5350		6.4564		21.55	83.9		P
Copper	mg/Kg	80 - 120	44.6562		15.9132		32.33	88.9		P
Iron	mg/Kg	80 - 120	14132.9500		13157.9600		323.28	301.6		P
Lead	mg/Kg	80 - 120	111.7365		18.0657		107.76	86.9		P
Magnesium	mg/Kg	80 - 120	19412.6000		17452.4600		215.52	909.5		P
Manganese	mg/Kg	80 - 120	434.7381		442.9332		21.55	-38.0		P
Nickel	mg/Kg	80 - 120	59.7489		12.9995		53.88	86.8		P
Potassium	mg/Kg	80 - 120	2589.0910		931.8912		1077.59	153.8	N	P
Selenium	mg/Kg	80 - 120	190.3082		0.3551	J	215.52	88.1		P
Silver	mg/Kg	80 - 120	12.5339		0.1131	U	8.08	155.1	N	P
Sodium	mg/Kg	80 - 120	438.2716	J	82.3836	J	323.28	110.1		P
Thallium	mg/Kg	80 - 120	202.8939		0.3556	U	215.52	94.1		P
Vanadium	mg/Kg	80 - 120	35.2893		8.2812		32.33	83.5		P
Zinc	mg/Kg	80 - 120	69.2430		47.0151		21.55	103.1		P

Metals
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DUPLICATE SAMPLE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Sample ID:** S3520-02 **Client ID:** AB-REC-29-85-15-PCD

Percent Solids for Sample: 89.80 **Duplicate ID:** S3520-02D **Percent Solids for Duplicate:** 89.80

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	0.0111	0.0136		0.0173		23.9		CV

Metals
- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Sample ID:** S3520-02S **Client ID:** AB-REC-29-85-15-PCSD

Percent Solids for Sample: 89.80 **Duplicate ID:** S3520-02SD **Percent Solids for Duplicate:** 89.80

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg		0.2522		0.2973		16.4		CV

Metals
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DUPLICATE SAMPLE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: SOIL **Sample ID:** S3409-10 **Client ID:** SB-290-4D

Percent Solids for Sample: 92.80 **Duplicate ID:** S3409-10D **Percent Solids for Duplicate:** 92.80

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg		6746.8630		6713.5160		0.5		P
Antimony	mg/Kg		0.6067	U	0.6067	U			P
Arsenic	mg/Kg		7.9192		7.5668		4.6		P
Barium	mg/Kg	21.5517	91.4046		91.3077		0.1		P
Beryllium	mg/Kg		0.3788	J	0.3788	J	0.0		P
Cadmium	mg/Kg	0.5388	0.6040		0.5986		0.9		P
Calcium	mg/Kg		61113.8700		61042.2000		0.1		P
Chromium	mg/Kg		6.5129		6.4795		0.5		P
Cobalt	mg/Kg	5.3879	6.4564		6.3966		0.9		P
Copper	mg/Kg		15.9132		15.7672		0.9		P
Iron	mg/Kg		13157.9600		13075.4600		0.6		P
Lead	mg/Kg		18.0657		18.0932		0.2		P
Magnesium	mg/Kg		17452.4600		17401.7200		0.3		P
Manganese	mg/Kg		442.9332		441.4655		0.3		P
Nickel	mg/Kg	4.3103	12.9995		13.1751		1.3		P
Potassium	mg/Kg	538.7931	931.8912		918.7711		1.4		P
Selenium	mg/Kg		0.3551	J	0.3373	U	200.0	✓	P
Silver	mg/Kg		0.1131	U	0.1131	U			P
Sodium	mg/Kg		82.3836	J	49.5706	J	49.7	✓	P
Thallium	mg/Kg		0.3556	U	0.3556	U			P
Vanadium	mg/Kg	5.3879	8.2812		8.1848		1.2		P
Zinc	mg/Kg		47.0151		47.0840		0.1		P

Metals
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DUPLICATE SAMPLE SUMMARY

Client: Chazen Companies | Level: LOW | SDG No.: S3409

Contract: Chazen Companies | Lab Code: CHEMED | Case No.: S3409 | SAS No.: S3409

Matrix: SOIL | Sample ID: S3409-10S | Client ID: SB-290-4SD

Percent Solids for Sample: 92.80 | Duplicate ID: S3409-10SD | Percent Solids for Duplicate: 92.80

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg		8062.4130		8021.7800		0.5		P
Antimony	mg/Kg		79.2382		79.2015		0.0		P
Arsenic	mg/Kg		90.7769		90.5700		0.2		P
Barium	mg/Kg		275.5609		273.9973		0.6		P
Beryllium	mg/Kg		17.8615		17.7328		0.7		P
Cadmium	mg/Kg		19.5323		19.5059		0.1		P
Chromium	mg/Kg		43.0286		42.7128		0.7		P
Cobalt	mg/Kg		24.7220		24.5350		0.8		P
Copper	mg/Kg		45.0043		44.6562		0.8		P
Iron	mg/Kg		14218.4500		14132.9500		0.6		P
Lead	mg/Kg		112.5997		111.7365		0.8		P
Magnesium	mg/Kg		19536.1700		19412.6000		0.6		P
Manganese	mg/Kg		437.0948		434.7381		0.5		P
Nickel	mg/Kg		60.0991		59.7489		0.6		P
Potassium	mg/Kg		2599.5130		2589.0910		0.4		P
Selenium	mg/Kg		190.5054		190.3082		0.1		P
Silver	mg/Kg		12.5318		12.5339		0.0		P
Sodium	mg/Kg		435.2274	J	438.2716	J	0.7		P
Thallium	mg/Kg		205.4908		202.8939		1.3		P
Vanadium	mg/Kg		35.4246		35.2893		0.4		P
Zinc	mg/Kg		69.6148		69.2430		0.5		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Aqueous LCS Source: **Solid LCS Source:** EPA-ICV

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB16177BS								
	Mercury	mg/Kg	0.200	0.216		108.0	0.2 - 0.2	CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Aqueous LCS Source: **Solid LCS Source:** EPA-ICV

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB16183BS								
	Aluminum	mg/Kg	200.0	202.3		101.2	160.0 - 240.0	P
	Antimony	mg/Kg	80.0	83.0		103.8	64.0 - 96.0	P
	Arsenic	mg/Kg	80.0	88.1		110.1	64.0 - 96.0	P
	Barium	mg/Kg	200.0	227.1		113.6	160.0 - 240.0	P
	Beryllium	mg/Kg	20.0	20.4		102.0	16.0 - 24.0	P
	Cadmium	mg/Kg	20.0	22.1		110.5	16.0 - 24.0	P
	Calcium	mg/Kg	500.0	539.7		107.9	400.0 - 600.0	P
	Chromium	mg/Kg	40.0	41.5		103.8	32.0 - 48.0	P
	Cobalt	mg/Kg	20.0	20.4		102.0	16.0 - 24.0	P
	Copper	mg/Kg	30.0	29.5		98.3	24.0 - 36.0	P
	Iron	mg/Kg	300.0	278.9		93.0	240.0 - 360.0	P
	Lead	mg/Kg	100.0	103.0		103.0	80.0 - 120.0	P
	Magnesium	mg/Kg	200.0	205.8	J	102.9	160.0 - 240.0	P
	Manganese	mg/Kg	20.0	20.6		103.0	16.0 - 24.0	P
	Nickel	mg/Kg	50.0	53.8		107.6	40.0 - 60.0	P
	Potassium	mg/Kg	1000.0	1112.2		111.2	800.0 - 1200.0	P
	Selenium	mg/Kg	200.0	218.8		109.4	160.0 - 240.0	P
	Silver	mg/Kg	7.5	8.2		109.3	6.0 - 9.0	P
	Sodium	mg/Kg	300.0	302.4	J	100.8	240.0 - 360.0	P
	Thallium	mg/Kg	200.0	218.1		109.0	160.0 - 240.0	P
	Vanadium	mg/Kg	30.0	29.8		99.3	24.0 - 36.0	P
	Zinc	mg/Kg	20.0	20.3		101.5	16.0 - 24.0	P

Metals

- 9 -

SERIAL DILUTION SAMPLE SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: WATER **Level:** LOW **Client ID:** AB-REC-29-85-15-PCL

Sample ID: S3520-02 **Serial Dilution ID:** S3520-02L

Analyte	Initial Result ug/L	C	Serial Result ug/L	C	% Difference	Qual	Acceptance Limits	M
Mercury	0.24		0.84	J	250.0		10.00 %	CV

Metals

- 9 -

SERIAL DILUTION SAMPLE SUMMARY

Client: Chazen Companies **SDG No.:** S3409

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3409 **SAS No.:** S3409

Matrix: WATER **Level:** LOW **Client ID:** SB-290-4L

Sample ID: S3409-10 **Serial Dilution ID:** S3409-10L

Analyte	Initial Result ug/L	C	Serial Result ug/L	C	% Difference	Qual	Acceptance Limits	M
Aluminum	62610.88		64178.20		2.5		10.00 %	P
Antimony	6.60	U	33.00	U			10.00 %	P
Arsenic	73.49		75.80		3.1		10.00 %	P
Barium	848.24		895.15	J	5.5		10.00 %	P
Beryllium	3.52	J	8.08	J	129.5		10.00 %	P
Cadmium	5.60		4.97	U	100.0		10.00 %	P
Calcium	567136.70		699985.10		23.4		10.00 %	P
Chromium	60.44		64.02		5.9		10.00 %	P
Cobalt	59.92		58.50	J	2.4		10.00 %	P
Copper	147.68		139.75		5.4		10.00 %	P
Iron	122105.80		132784.90		8.7		10.00 %	P
I	167.65		185.35		10.6		10.00 %	P
Magnesium	161958.80		173244.20		7.0		10.00 %	P
Manganese	4110.42		4512.85		9.8		10.00 %	P
Nickel	120.64		136.18	J	12.9		10.00 %	P
Potassium	8647.95		5858.05	J	32.3		10.00 %	P
Selenium	5.24	U	26.18	U			10.00 %	P
Silver	3.38	U	16.90	U			10.00 %	P
Sodium	764.52	J	947.36	U	100.0		10.00 %	P
Thallium	5.78	U	28.89	U			10.00 %	P
Vanadium	76.85		81.42	J	5.9		10.00 %	P
Zinc	436.30		453.55		4.0		10.00 %	P

DATA USABILITY SUMMARY REPORT

for

THE CHAZEN COMPANIES

20 Gurley Avenue

Troy, NY 12182

FORMER STILLWATER BOILER HOUSE
ID#B-001975-5
SDG:S3409
Sampled 6/28/04 thru 6/30/04

SOIL SAMPLES for VOLATILE ORGANICS

SB31 4-8 (S3409-02)	SB31 4-8D (S3409-03)
SB03 4-8 (S3409-04)	SB04 4-8 (S3409-05)
SB04 12-16 (S3409-06)	SB18 4-8 (S3409-07)
SB07 4-8 (S3409-08)	SB33 4-8 (S3409-09)
SB29 0-4 (S3409-10)	SB34 8-12 (S3409-11)
SB34 8-12D (S3409-12)	SB32 4-8 (S3409-13)
SB20 4-8 (S3409-14)	SB24 4-8 (S3409-15)
SB26 4-8 (S3409-16)	

DATA ASSESSMENT

A volatile organics data package containing analytical results for fifteen soil samples was received from The Chazen Companies on 21Sep04. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Stillwater Boiler House site (ID#B-00197-5), were identified by Chain of Custody documents and traceable through the work of CHEMTECH, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8260B, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 06/2000. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-24, Rev 1, June 1999, Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev 2, Dec 1996) was used as a technical reference.

The results reported from SB31 4-8D, SB04 4-8, SB04 12-16, SB34 8-12D, SB20 4-8 and SB26 4-8 have been qualified as estimations due to a combination of unacceptable surrogate standard recoveries and poor internal standard performance.

When present in samples, methylene chloride and acetone have been flagged as undetected. The presence of these analytes is assumed to represent a laboratory artifact

The perchloroethene results from SB31 4-8, and SB04 4-8; the benzene results from SB34 8-12D, SB32 4-8, SB20 4-8 and SB26 4-8; the cis-1,3-dichloropropene results from SB34 8-12D, SB32 4-8, SB20 4-8 and SB26 4-8; and the trichloroethene result from every program sample have been qualified as estimations due to poor calibration performance.

CORRECTNESS AND USABILITY

The results reported from SB31 4-8, SB04 12-16, SB18 4-8, SB07 4-8, SB33 4-8, SB29 0-4, SB34 8-12 and SB24 4-8 have been qualified as estimations because the ASP holding time limitation was exceeded prior to the time of analysis.

Several of the Tentatively Identified Compound (TIC) identifications reported from SB03 4-8, SB18 4-8, SB07 4-8 and SB29 0-4 were not supported by the mass spectra searches included in the raw data. These identifications have been edited to indicate an appropriate identification.

Many of the chromatograms included in this data package were grossly over attenuated due to the presence of a large artifact peak caused by carbon dioxide. The surrogate and internal standard peaks in the affected samples were reduced to a height

of less than 25% of full scale. This mechanical problem should be corrected prior to future sampling events.

Reported data should be considered technically defensible and completely usable in its present form. Reported concentrations that are felt to provide a usable estimation of the conditions being measured have been flagged "J" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound Concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 10/18/04

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample receipt (VTSR). Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOA samples must be analyzed within 10 days of receipt, unpreserved samples within 7 days. The holding time for soils is 10 days. Each sample delivery group, containing up to 20 samples, should include a field duplicate, a matrix spike, matrix spike duplicate, and a rinsate blank.

This sample delivery group contained fifteen soil samples. The samples were collected from the Former Stillwater Boiler House site between 28Jun04 and 30Jun04. The entire group of samples was shipped to the laboratory, via FedEx, on 01Jul04. The shipment arrived, intact, the following morning.

It is noted that the laboratory provided no documentation to indicate that the samples were properly chilled at the time of receipt. Although data has not been qualified, it should be noted that such omissions seriously limit the defensibility of reported data.

The initial analysis of SB31 4-8, SB03 4-8, SB18 4-8, SB07 4-8, SB29 0-4, SB34 8-12 and SB24 4-8 was completed 1-2 days beyond the ASP holding time limitation. Similarly, the repeated analysis of SB31 4-8DUP, SB04 4-8, SB04 12-16, SB33 4-8, SB34 8-12DUP, SB20 4-8 and SB26 4-8 were performed one day beyond the allowed holding time. The results reported from these samples have been qualified as estimations.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank. Any sample concentration less than 5 times the level determined in a blank must be qualified. The qualification criteria is extended to ten times the concentration observed in blanks for common laboratory artifacts. These include acetone, methylene chloride and 2-butanone. Chloroform is also frequently present as a laboratory artifact.

Four method blanks were analyzed with this group of samples. Each of these blanks demonstrated acceptable chromatography. The blanks did contain traces of acetone (14 µg/kg) and methylene chloride (1.7µg/kg, 3.8µg/kg). Similar artifacts were present in program samples. When present, acetone and methylene chloride should be interpreted as undetected. Detection limits equaling CRDL or the reported concentration, whichever is greater, should be assumed.

MS TUNING

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence and during every 12-hour period of instrument operation. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

CALIBRATION

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration standards verify instrument stability.

Initial instrument calibrations were performed on 29Jun04, 08Jul04 and 13Jul04. Standards of 5, 20, 50, 100 and 200 µg/l were included. During each calibration, most analytes produced the required levels of response and demonstrated an acceptable degree of linearity. During the 29Jun04 calibration a low response was reported for trichloroethene and tetrachloroethene. Based on this performance, the trichloroethene and tetrachloroethene results reported from associated samples have been qualified as estimations. Although each 1,1-dichloroethene standard produced the required level of response, poor linearity was demonstrated. This performance indicates that errors would be expected in measurements of 1,1-dichloroethene, but this analyte would be detected if present in samples. Because 1,1-dichloroethene was not detected in samples, data has been left unqualified.

During the 08Jul04 calibration, benzene and trichloroethene failed to produce the required levels of response, and 1,1-dichloroethene again demonstrated poor linearity. Associated benzene and trichloroethene results have been qualified as estimations. 1,1-dichloroethene has again been left unqualified. Acceptable calibration performance was demonstrated on 13Jul04.

Continuing calibration verifications were performed on 07Jul04, 09Jul04 and 13Jul04, prior to the analysis of program samples. On 07Jul04, trichloroethene and tetrachloroethene produced an unacceptably low response. This issue has been previously addressed. Similarly, the low response produced by benzene and trichloroethene on 09Jul04 has been previously addressed. On 09Jul04 a low response was also produced by cis-1,3-dichloropropene. Cis-1,3-dichloropropene results have been qualified as estimations in associated samples.

During the calibration check on 13Jul04, trichloroethene again produced a low instrument response. Trichloroethene results have been qualified as estimations in associated samples.

SURROGATES

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared. However, the laboratory evaluated surrogate performance by applying in-house control limits. When compared to ASP requirements, unacceptable surrogate recoveries were reported from SB31 4-8DUP, SB04 12-16, SB33 4-8, SB20 4-8, and SB26 4-8. Each of these samples was reanalyzed. The second analysis of MW04 12-16 and SB33 4-8 produced acceptable surrogate recoveries. Data obtained from the repeated analysis of these samples should be included in data tables. Data obtained from the initial analysis of MW31 4-8DUP, SB20 4-8 and SB26 4-8 should be included in data table. These results, however, must be flagged as estimations.

INTERNAL STANDARDS

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than 50%. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to these limits, an unacceptable response was produced by the internal standard additions to SB31 4-8DUP, SB04 4-8, SB04 12-16, SB33 4-8, SB34 8-12DUP and SB20 4-8. The analysis of these samples was repeated. Based on improved performance, data obtained from the repeated analysis of SB04 12-16 and SB33 4-8 should be included in data tables.

MATRIX SPIKES / MATRIX SPIKE DUPLICATES / MATRIX SPIKED BLANKS

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

SB33 4-8 was selected for matrix spiking. The recoveries of additions to two portions of this sample were compared to laboratory generated acceptance criteria. When compared to ASP requirements, unacceptable recoveries were observed for trichloroethene and chlorobenzene.

It is noted that the MS/MSD Summary found on page 11 indicated a chlorobenzene concentration of 50 µg/kg in the unspiked portion SB33 4-8, and spike recoveries of -15% and -14%. The unspiked

result was not supported by the raw data. When this error was corrected, acceptable recoveries of 62% and 63% were calculated. Data qualifications were not required.

The remaining low trichloroethene recovery (55%) that was reported from the MS spiked sample, alone, does not warrant data qualifications.

A single spiked blank (LCS) was also processed with this group of samples. This sample produced a toluene recovery of 75%, 1% below the ASP acceptance criteria. Again, this minor deviation does not require the qualification of data.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects or poor laboratory technique.

Field split duplicates of SB31 4-8 and SB34 8-12 were included in this delivery group. With the exception of artifacts of methylene chloride, targeted analytes were not detected in either portion of these samples. Program requirements were satisfied.

REPORTED ANALYTES

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples.

Tentatively Identified Compounds were also reported (TIC). The TIC identifications reported from SB03 4-8, SB-18 4-8, SB07 4-8 and SB29 0-4 were not supported by the mass spectra searches included in the raw data. The affected report forms were edited to reflect appropriate identifications.

SUMMARY OF QUALIFIED DATA

Former Stillwater Boiler House site

Sampled 6/28/04 - 6/30/04

	INT STDS SURROGATES	HOLD TIME	BLANK METH CL	BLANK ACETONE	CALIBRATE TCE	CALIBRATE PCE	CALIBRATE BENZENE
SB31 4-8 (S3409-02)		ALL J/UJ	6.2U		UJ		
SB31 4-8D (S3409-03)	ALL J/UJ			45U	UJ	UJ	
SB03 4-8 (S3409-04)			5.0U		UJ		
SB04 4-8 (S3409-05)	ALL J/UJ				UJ	UJ	
SB04 12-16(S3409-06)	ALL J/UJ	ALL J/UJ	8.7U		UJ		
SB18 4-8 (S3409-07)		ALL J/UJ	5.9U		UJ		
SB07 4-8 (S3409-08)		ALL J/UJ	6.0U		UJ		
SB33 4-8 (S3409-09)		ALL J/UJ	6.5U		UJ		
SB29 0-4 (S3409-10)		ALL J/UJ	6.9U		UJ		
SB34 8-12 (S3409-11)		ALL J/UJ	7.4U		UJ		
SB34 8-12D(S3409-12)	ALL J/UJ		5.6U		UJ		UJ
SB32 4-8 (S3409-13)					UJ		UJ
SB20 4-8 (S3409-14)	ALL J/UJ		12U	35U	UJ		UJ
SB24 4-8 (S3409-15)		ALL J/UJ	6.0U	89U	UJ		
SB26 4-8 (S3409-16)	ALL J/UJ		6.6U		UJ		UJ

SUMMARY OF QUALIFIED DATA

Former Stillwater Boiler House site

Sampled 6/28/04 - 6/30/04

	CALIBRATE cis13DCPE	SPECTRA ID TIC
SB31 4-8 (S3409-02)		
SB31 4-8D (S3409-03)		
SB03 4-8 (S3409-04)		EDIT
SB04 4-8 (S3409-05)		
SB04 12-16 (S3409-06)		
SB18 4-8 (S3409-07)		EDIT
SB07 4-8 (S3409-08)		EDIT
SB33 4-8 (S3409-09)		
SB29 0-4 (S3409-10)		EDIT
SB34 8-12 (S3409-11)		
SB34 8-12D (S3409-12)	UJ	
SB32 4-8 (S3409-13)	UJ	
SB20 4-8 (S3409-14)	UJ	
SB24 4-8 (S3409-15)		
SB26 4-8 (S3409-16)	UJ	

Chemtech

Volatiles
SW-846

SDG No.: S3409
Client: Chazen Companies

Sample ID: S3409-02 | Client ID: SB-314-8

Date Collected: 6/30/2004 | Date Received: 7/2/2004
Date Analyzed: 7/13/2004 | Matrix: SOIL
File ID: VK071312.D | Analytical Run ID: VK071304
Dilution: 1 | Instrument ID: MSVOAK
Analytical Method: 8260 | Associated Blank: VBK0713S2
Sample Wt/Vol: 5.0 Units: g | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 20

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.5	U	6.2	1.5	ug/Kg
Chloromethane	74-87-3	< 0.41	U	6.2	0.41	ug/Kg
Vinyl chloride	75-01-4	< 0.29	U	6.2	0.29	ug/Kg
Bromomethane	74-83-9	< 0.88	U	6.2	0.88	ug/Kg
Chloroethane	75-00-3	< 0.66	U	6.2	0.66	ug/Kg
Tri)ofluoromethane	75-69-4	< 3.1	U	6.2	3.1	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.57	U UJ	6.2	0.57	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.27	U	6.2	0.27	ug/Kg
Acetone	67-64-1	< 9.3	U	31	9.3	ug/Kg
Carbon disulfide	75-15-0	< 0.13	U	6.2	0.13	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.29	U	6.2	0.29	ug/Kg
Methyl Acetate	79-20-9	< 1.6	U	6.2	1.6	ug/Kg
Methylene Chloride	75-09-2	6.2 ~~4.8~~	U ~~B~~ J	6.2	0.85	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.46	U	6.2	0.46	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.44	U	6.2	0.44	ug/Kg
Cyclohexane	110-82-7	< 0.38	U	6.2	0.38	ug/Kg
2-Butanone	78-93-3	< 2.8	U	31	2.8	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.37	U	6.2	0.37	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.44	U	6.2	0.44	ug/Kg
Chloroform	67-66-3	< 0.30	U	6.2	0.30	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.34	U	6.2	0.34	ug/Kg
Methylcyclohexane	108-87-2	< 0.44	U	6.2	0.44	ug/Kg
Benzene	71-43-2	< 0.25	U	6.2	0.25	ug/Kg
1,2-Dichloroethane	107-06-2	< 3.8	U	6.2	3.8	ug/Kg
Trichloroethene	79-01-6	< 0.40	U UJ	6.2	0.40	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.42	U	6.2	0.42	ug/Kg
Bro)ichloromethane	75-27-4	< 0.42	U	6.2	0.42	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 3.0	U	31	3.0	ug/Kg
Toluene	108-88-3	< 0.32	U	6.2	0.32	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 0.32	U	6.2	0.32	ug/Kg
cis-1,3-Dichloropropene	10061-01-5	< 0.24	U	6.2	0.24	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 0.63	U	6.2	0.63	ug/Kg
2-Hexanone	591-78-6	< 4.0	U	31	4.0	ug/Kg

JB

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-02 Client ID: SB-314-8

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/13/2004 Matrix: SOIL
File ID: VK071312.D Analytical Run ID: VK071304
Dilution: 1 Instrument ID: MSVOAK
Analytical Method: 8260 Associated Blank: VBK0713S2
Sample Wt/Wol: 5.0 Units: g Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 20

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.52	U	6.2	0.52	ug/Kg
Tetrachloroethene	127-18-4	< 0.79	U	6.2	0.79	ug/Kg
Chlorobenzene	108-90-7	< 0.44	U	6.2	0.44	ug/Kg
Ethyl Benzene	100-41-4	< 0.31	U	6.2	0.31	ug/Kg
m/p-Xylenes	136777-61-2	< 0.64	U	6.2	0.64	ug/Kg
o-Xylene	95-47-6	< 0.54	U	6.2	0.54	ug/Kg
Styrene	100-42-5	< 0.39	U	6.2	0.39	ug/Kg
Bromoform	75-25-2	< 0.37	U	6.2	0.37	ug/Kg
Isopropylbenzene	98-82-8	< 0.46	U	6.2	0.46	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.66	U	6.2	0.66	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.26	U	6.2	0.26	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.44	U	6.2	0.44	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.51	U	6.2	0.51	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.85	U	6.2	0.85	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.31	U	6.2	0.31	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	38.96	78 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	46.66	93 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	45.52	91 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	52.35	105 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	157715	4.20			
1,4-Difluorobenzene	540-36-3	293596	4.83			
Chlorobenzene-d5	3114-55-4	209029	7.33			
1,4-Dichlorobenzene-d4	3855-82-1	93804	8.76			

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Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-03 Client ID: SB-314-8DUP

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/7/2004 Matrix: SOIL
File ID: VI070721.D Analytical Run ID: VI062904
Dilution: 1 Instrument ID: MSVOAI
Analytical Method: 8260 Associated Blank: VBI0707S1
Sample Wt/Vol: 5.0 Units: g Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 24

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.6	U	6.6	1.6	ug/Kg
Chloromethane	74-87-3	< 0.44	U	6.6	0.44	ug/Kg
Vinyl chloride	75-01-4	< 0.31	U	6.6	0.31	ug/Kg
Bromomethane	74-83-9	< 0.93	U	6.6	0.93	ug/Kg
Chloroethane	75-00-3	< 0.69	U UJ	6.6	0.69	ug/Kg
Trichlorofluoromethane	75-69-4	< 3.2	U	6.6	3.2	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.60	U	6.6	0.60	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.28	U	6.6	0.28	ug/Kg
Acetone	67-64-1	45	U ~~B~~	33	9.8	ug/Kg
Carbon disulfide	75-15-0	< 0.13	U	6.6	0.13	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.30	U	6.6	0.30	ug/Kg
Methyl Acetate	79-20-9	< 1.7	U	6.6	1.7	ug/Kg
Methylene Chloride	75-09-2	< 0.89	U	6.6	0.89	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.49	U	6.6	0.49	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.46	U	6.6	0.46	ug/Kg
Cyclohexane	110-82-7	< 0.40	U	6.6	0.40	ug/Kg
2-Butanone	78-93-3	< 3.0	U	33	3.0	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.39	U	6.6	0.39	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.46	U	6.6	0.46	ug/Kg
Chloroform	67-66-3	< 0.31	U	6.6	0.31	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.36	U	6.6	0.36	ug/Kg
Methylcyclohexane	108-87-2	< 0.47	U UJ	6.6	0.47	ug/Kg
Benzene	71-43-2	< 0.27	U	6.6	0.27	ug/Kg
1,2-Dichloroethane	107-06-2	< 4.1	U	6.6	4.1	ug/Kg
Trichloroethene	79-01-6	< 0.42	U	6.6	0.42	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.44	U	6.6	0.44	ug/Kg
Bromodichloromethane	75-27-4	< 0.44	U	6.6	0.44	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 3.2	U	33	3.2	ug/Kg
Toluene	108-88-3	< 0.34	U	6.6	0.34	ug/Kg
trans-1,3-Dichloropropene	10061-02-6	< 0.34	U	6.6	0.34	ug/Kg
cis-1,3-Dichloropropene	10061-01-5	< 0.26	U	6.6	0.26	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 0.67	U	6.6	0.67	ug/Kg
2-Hexanone	591-78-6	< 4.2	U	33	4.2	ug/Kg

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-03	Client ID:	SB-314-8DUP
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/7/2004	Matrix:	SOIL
File ID:	VI070721.D	Analytical Run ID:	VI062904
Dilution:	1	Instrument ID:	MSVOAI
Analytical Method:	8260	Associated Blank:	VBI0707S1
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	24

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.55	U	6.6	0.55	ug/Kg
Tetrachloroethene	127-18-4	< 0.84	U	6.6	0.84	ug/Kg
Chlorobenzene	108-90-7	< 0.46	U	6.6	0.46	ug/Kg
Ethyl Benzene	100-41-4	< 0.33	U	6.6	0.33	ug/Kg
m/p-Xylenes	136777-61-2	< 0.68	U	6.6	0.68	ug/Kg
o-Xylene	95-47-6	< 0.57	U	6.6	0.57	ug/Kg
Styrene	100-42-5	< 0.41	U	6.6	0.41	ug/Kg
Bromoform	75-25-2	< 0.39	U	6.6	0.39	ug/Kg
Isopropylbenzene	98-82-8	< 0.49	U	6.6	0.49	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.70	U	6.6	0.70	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.28	U	6.6	0.28	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.46	U	6.6	0.46	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.54	U	6.6	0.54	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.89	U	6.6	0.89	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.33	U	6.6	0.33	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	69.52	139 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	42.69	85 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	50.28	101 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	52.7	105 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	48090	3.86			
1,4-Difluorobenzene	540-36-3	153592	4.33			
Chlorobenzene-d5	3114-55-4	141263	7.40			
1,4-Dichlorobenzene-d4	3855-82-1	50864	9.68			

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SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-03RE | Client ID: SB-314-8DUPRE

Date Collected: 6/30/2004 | Date Received: 7/2/2004
Date Analyzed: 7/13/2004 | Matrix: SOIL
File ID: VK071313.D | Analytical Run ID: VK071304
Dilution: 1 | Instrument ID: MSVOAK
Analytical Method: 8260 | Associated Blank: VBK0713S2
Sample Wt/Vol: 5.0 Units: g | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 24

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.6	U	6.6	1.6	ug/Kg
Chloromethane	74-87-3	< 0.44	U	6.6	0.44	ug/Kg
Vinyl chloride	75-01-4	< 0.31	U	6.6	0.31	ug/Kg
Bromomethane	74-83-9	< 0.93	U	6.6	0.93	ug/Kg
Chloroethane	75-00-3	< 0.69	U	6.6	0.69	ug/Kg
Tr[illegible]rofluoromethane	75-69-4	< 3.2	U	6.6	3.2	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.60	U	6.6	0.60	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.28	U	6.6	0.28	ug/Kg
Acetone	67-64-1	< 9.8	U	33	9.8	ug/Kg
Carbon disulfide	75-15-0	< 0.13	U	6.6	0.13	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.30	U	6.6	0.30	ug/Kg
Methyl Acetate	79-20-9	< 1.7	U	6.6	1.7	ug/Kg
Methylene Chloride	75-09-2	4.8	JB	6.6	0.89	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.49	U	6.6	0.49	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.46	U	6.6	0.46	ug/Kg
Cyclohexane	110-82-7	< 0.40	U	6.6	0.40	ug/Kg
2-Butanone	78-93-3	< 3.0	U	33	3.0	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.39	U	6.6	0.39	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.46	U	6.6	0.46	ug/Kg
Chloroform	67-66-3	< 0.31	U	6.6	0.31	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.36	U	6.6	0.36	ug/Kg
Methylcyclohexane	108-87-2	< 0.47	U	6.6	0.47	ug/Kg
Benzene	71-43-2	< 0.27	U	6.6	0.27	ug/Kg
1,2-Dichloroethane	107-06-2	< 4.1	U	6.6	4.1	ug/Kg
Trichloroethene	79-01-6	< 0.42	U	6.6	0.42	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.44	U	6.6	0.44	ug/Kg
Br[illegible]dichloromethane	75-27-4	< 0.44	U	6.6	0.44	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 3.2	U	33	3.2	ug/Kg
Toluene	108-88-3	< 0.34	U	6.6	0.34	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 0.34	U	6.6	0.34	ug/Kg
cis-1,3-Dichloropropene	10061-01-5	< 0.26	U	6.6	0.26	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 0.67	U	6.6	0.67	ug/Kg
2-Hexanone	591-78-6	< 4.2	U	33	4.2	ug/Kg

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Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-03RE | Client ID: SB-314-8DUPRE

Date Collected: 6/30/2004 | Date Received: 7/2/2004
Date Analyzed: 7/13/2004 | Matrix: SOIL
File ID: VK071313.D | Analytical Run ID: VK071304
Dilution: 1 | Instrument ID: MSVOAK
Analytical Method: 8260 | Associated Blank: VBK0713S2
Sample Wt/Vol: 5.0 Units: g | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 24

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.55	U	6.6	0.55	ug/Kg
Tetrachloroethene	127-18-4	< 0.84	U	6.6	0.84	ug/Kg
Chlorobenzene	108-90-7	< 0.46	U	6.6	0.46	ug/Kg
Ethyl Benzene	100-41-4	< 0.33	U	6.6	0.33	ug/Kg
m/p-Xylenes	136777-61-2	< 0.68	U	6.6	0.68	ug/Kg
o-Xylene	95-47-6	< 0.57	U	6.6	0.57	ug/Kg
Sty	100-42-5	< 0.41	U	6.6	0.41	ug/Kg
Bromoform	75-25-2	< 0.39	U	6.6	0.39	ug/Kg
Isopropylbenzene	98-82-8	< 0.49	U	6.6	0.49	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.70	U	6.6	0.70	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.28	U	6.6	0.28	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.46	U	6.6	0.46	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.54	U	6.6	0.54	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.89	U	6.6	0.89	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.33	U	6.6	0.33	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	34.48	69 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	46.48	93 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	46.71	93 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	49.48	99 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	143410	4.20			
1,4-Difluorobenzene	540-36-3	257013	4.83			
Chlorobenzene-d5	3114-55-4	225796	7.33			
1,4-Dichlorobenzene-d4	3855-82-1	89216	8.76			

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Volatiles
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SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-04 Client ID: SB-034-8

Date Collected: 6/28/2004 Date Received: 7/2/2004
Date Analyzed: 7/14/2004 Matrix: SOIL
File ID: VK071352.D Analytical Run ID: VK071304
Dilution: 1 Instrument ID: MSVOAK
Analytical Method: 8260 Associated Blank: VBK0713S3
Sample Wt/Vol: 5.0 Units: g Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 0

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.2	U	5.0	1.2	ug/Kg
Chloromethane	74-87-3	< 0.33	U	5.0	0.33	ug/Kg
Vinyl chloride	75-01-4	< 0.24	U	5.0	0.24	ug/Kg
Bromomethane	74-83-9	< 0.71	U	5.0	0.71	ug/Kg
Chloroethane	75-00-3	< 0.52	U	5.0	0.52	ug/Kg
Tr. rofluoromethane	75-69-4	< 2.5	U	5.0	2.5	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.46	U UJ	5.0	0.46	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.22	U	5.0	0.22	ug/Kg
Acetone	67-64-1	< 7.5	U	25	7.5	ug/Kg
Carbon disulfide	75-15-0	< 0.10	U	5.0	0.10	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.23	U	5.0	0.23	ug/Kg
Methyl Acetate	79-20-9	< 1.3	U	5.0	1.3	ug/Kg
Methylene Chloride	75-09-2	5.0 ~~4.0~~	U ~~JB~~ J	5.0	0.68	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.37	U	5.0	0.37	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.35	U	5.0	0.35	ug/Kg
Cyclohexane	110-82-7	< 0.30	U	5.0	0.30	ug/Kg
2-Butanone	78-93-3	< 2.3	U	25	2.3	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.30	U	5.0	0.30	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.35	U	5.0	0.35	ug/Kg
Chloroform	67-66-3	< 0.24	U	5.0	0.24	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.27	U	5.0	0.27	ug/Kg
Methylcyclohexane	108-87-2	< 0.36	U UJ	5.0	0.36	ug/Kg
Benzene	71-43-2	< 0.20	U	5.0	0.20	ug/Kg
1,2-Dichloroethane	107-06-2	< 3.1	U	5.0	3.1	ug/Kg
Trichloroethene	79-01-6	< 0.32	U	5.0	0.32	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.34	U	5.0	0.34	ug/Kg
Br dichloromethane	75-27-4	< 0.33	U	5.0	0.33	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 2.4	U	25	2.4	ug/Kg
Toluene	108-88-3	< 0.26	U	5.0	0.26	ug/Kg
-1,3-Dichloropropene	10061-02-6	< 0.26	U	5.0	0.26	ug/Kg
cis-1,3-Dichloropropene	10061-01-5	< 0.19	U	5.0	0.19	ug/Kg
,1,2-Trichloroethane	79-00-5	< 0.51	U	5.0	0.51	ug/Kg
2-Hexanone	591-78-6	< 3.2	U	25	3.2	ug/Kg

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SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-04	Client ID:	SB-034-8
Date Collected:	6/28/2004	Date Received:	7/2/2004
Date Analyzed:	7/14/2004	Matrix:	SOIL
File ID:	VK071352.D	Analytical Run ID:	VK071304
Dilution:	1	Instrument ID:	MSVOAK
Analytical Method:	8260	Associated Blank:	VBK0713S3
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	0

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.42	U	5.0	0.42	ug/Kg
Tetrachloroethene	127-18-4	< 0.64	U	5.0	0.64	ug/Kg
Chlorobenzene	108-90-7	< 0.35	U	5.0	0.35	ug/Kg
Ethyl Benzene	100-41-4	< 0.25	U	5.0	0.25	ug/Kg
m/p-Xylenes	136777-61-2	< 0.51	U	5.0	0.51	ug/Kg
o-Xylene	95-47-6	< 0.43	U	5.0	0.43	ug/Kg
Sty	100-42-5	< 0.31	U	5.0	0.31	ug/Kg
Bromoform	75-25-2	< 0.30	U	5.0	0.30	ug/Kg
Isopropylbenzene	98-82-8	< 0.37	U	5.0	0.37	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.53	U	5.0	0.53	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.21	U	5.0	0.21	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.35	U	5.0	0.35	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.41	U	5.0	0.41	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.68	U	5.0	0.68	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.25	U	5.0	0.25	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	38.95	78 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	47.82	96 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	46.67	93 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	41.01	82 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	198200	4.22			
1,4-Difluorobenzene	540-36-3	342951	4.84			
Chlorobenzene-d5	3114-55-4	233532	7.33			
1,4-Dichlorobenzene-d4	3855-82-1	79195	8.77			
TENTITIVE IDENTIFIED COMPOUNDS						
~~Benzene, 1-propenyl-, (E)-~~ C9H10	873665	8.9	J	8.93		ug/Kg
~~Naphthalene~~	~~91203~~	~~130~~	~~J~~	~~9.95~~		~~ug/Kg~~ BNA
~~Naphthalene, 1-methyl-~~	~~90120~~	~~16~~	~~J~~	~~10.65~~		~~ug/Kg~~ BNA
~~1H-Indene, 1-ethylidene-~~ C11H10	2471832	11	J	10.79		ug/Kg

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Volatiles
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SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-05 Client ID: SB-044-8

Date Collected: 6/28/2004 Date Received: 7/2/2004
Date Analyzed: 7/8/2004 Matrix: SOIL
File ID: VI070725.D Analytical Run ID: VI062904
Dilution: 1 Instrument ID: MSVOAI
Analytical Method: 8260 Associated Blank: VBI0707S1
Sample Wt/Vol: 5.0 Units: g Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 21

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.6	U	6.3	1.6	ug/Kg
Chloromethane	74-87-3	< 0.42	U	6.3	0.42	ug/Kg
Vinyl chloride	75-01-4	< 0.30	U	6.3	0.30	ug/Kg
Bromomethane	74-83-9	< 0.90	U	6.3	0.90	ug/Kg
Chloroethane	75-00-3	< 0.66	U	6.3	0.66	ug/Kg
Tri)ofluoromethane	75-69-4	< 3.1	U	6.3	3.1	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.58	U	6.3	0.58	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.27	U	6.3	0.27	ug/Kg
Acetone	67-64-1	< 9.4	U	32	9.4	ug/Kg
Carbon disulfide	75-15-0	< 0.13	U	6.3	0.13	ug/Kg
Methyl tert-butyl Ether	1634-04-4	3.9	J	6.3	0.29	ug/Kg
Methyl Acetate	79-20-9	< 1.6	U	6.3	1.6	ug/Kg
Methylene Chloride	75-09-2	< 0.86	U	6.3	0.86	ug/Kg
rans-1,2-Dichloroethene	156-60-5	< 0.47	U	6.3	0.47	ug/Kg
,1-Dichloroethane	75-34-3	< 0.45	U	6.3	0.45	ug/Kg
Cyclohexane	110-82-7	< 0.39	U	6.3	0.39	ug/Kg
-Butanone	78-93-3	< 2.9	U	32	2.9	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.38	U	6.3	0.38	ug/Kg
is-1,2-Dichloroethene	156-59-2	< 0.45	U	6.3	0.45	ug/Kg
Chloroform	67-66-3	< 0.30	U	6.3	0.30	ug/Kg
,1,1-Trichloroethane	71-55-6	< 0.34	U	6.3	0.34	ug/Kg
Methylcyclohexane	108-87-2	< 0.45	U	6.3	0.45	ug/Kg
Benzene	71-43-2	< 0.26	U	6.3	0.26	ug/Kg
,2-Dichloroethane	107-06-2	< 3.9	U	6.3	3.9	ug/Kg
Trichloroethene	79-01-6	< 0.41	U	6.3	0.41	ug/Kg
,2-Dichloropropane	78-87-5	< 0.42	U	6.3	0.42	ug/Kg
Bro ichloromethane	75-27-4	< 0.42	U	6.3	0.42	ug/Kg
-Methyl-2-Pentanone	108-10-1	< 3.0	U	32	3.0	ug/Kg
Toluene	108-88-3	< 0.33	U	6.3	0.33	ug/Kg
-1,3-Dichloropropene	10061-02-6	< 0.32	U	6.3	0.32	ug/Kg
is-1,3-Dichloropropene	10061-01-5	< 0.25	U	6.3	0.25	ug/Kg
,1,2-Trichloroethane	79-00-5	< 0.64	U	6.3	0.64	ug/Kg
-Hexanone	591-78-6	< 4.0	U	32	4.0	ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-05 Client ID: SB-044-8

Date Collected: 6/28/2004 Date Received: 7/2/2004
Date Analyzed: 7/8/2004 Matrix: SOIL
File ID: VI070725.D Analytical Run ID: VI062904
Dilution: 1 Instrument ID: MSVOAI
Analytical Method: 8260 Associated Blank: VBI0707S1
Sample Wt/Vol: 5.0 Units: g Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 21

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.53	U	6.3	0.53	ug/Kg
Tetrachloroethene	127-18-4	< 0.80	U	6.3	0.80	ug/Kg
Chlorobenzene	108-90-7	< 0.45	U	6.3	0.45	ug/Kg
Ethyl Benzene	100-41-4	< 0.32	U	6.3	0.32	ug/Kg
m/p-Xylenes	136777-61-2	< 0.65	U	6.3	0.65	ug/Kg
o-Xylene	95-47-6	< 0.55	U	6.3	0.55	ug/Kg
St	100-42-5	< 0.40	U	6.3	0.40	ug/Kg
Bromoform	75-25-2	< 0.38	U UJ	6.3	0.38	ug/Kg
Isopropylbenzene	98-82-8	< 0.47	U	6.3	0.47	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.67	U	6.3	0.67	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.27	U	6.3	0.27	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.44	U	6.3	0.44	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.52	U	6.3	0.52	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.86	U	6.3	0.86	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.32	U	6.3	0.32	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	47.4	95 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	46.08	92 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	55.69	111 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	45.25	90 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	7570	3.86			
1,4-Difluorobenzene	540-36-3	17369	4.32			
Chlorobenzene-d5	3114-55-4	16149	7.40			
1,4-Dichlorobenzene-d4	3855-82-1	5217	9.67			

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-05RE **Client ID:** SB-044-8RE

Date Collected: 6/28/2004 **Date Received:** 7/2/2004
Date Analyzed: 7/13/2004 **Matrix:** SOIL
File ID: VK071315.D **Analytical Run ID:** VK071304
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0713S2
Sample Wt/Wol: 5.0 **Units:** g **Soil Extract Vol:**
Soil Aliquot Vol: **% Moisture:** 21

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.6	U	6.3	1.6	ug/Kg
Chloromethane	74-87-3	< 0.42	U	6.3	0.42	ug/Kg
Vinyl chloride	75-01-4	< 0.30	U	6.3	0.30	ug/Kg
Bromomethane	74-83-9	< 0.90	U	6.3	0.90	ug/Kg
Chloroethane	75-00-3	< 0.66	U	6.3	0.66	ug/Kg
Trichlorofluoromethane	75-69-4	< 3.1	U	6.3	3.1	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.58	U	6.3	0.58	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.27	U	6.3	0.27	ug/Kg
Acetone	67-64-1	< 9.4	U	32	9.4	ug/Kg
Carbon disulfide	75-15-0	< 0.13	U	6.3	0.13	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.29	U	6.3	0.29	ug/Kg
Methyl Acetate	79-20-9	< 1.6	U	6.3	1.6	ug/Kg
Methylene Chloride	75-09-2	4.5	JB	6.3	0.86	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.47	U	6.3	0.47	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.45	U	6.3	0.45	ug/Kg
Cyclohexane	110-82-7	< 0.39	U	6.3	0.39	ug/Kg
2-Butanone	78-93-3	< 2.9	U	32	2.9	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.38	U	6.3	0.38	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.45	U	6.3	0.45	ug/Kg
Chloroform	67-66-3	< 0.30	U	6.3	0.30	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.34	U	6.3	0.34	ug/Kg
Methylcyclohexane	108-87-2	< 0.45	U	6.3	0.45	ug/Kg
Benzene	71-43-2	< 0.26	U	6.3	0.26	ug/Kg
1,2-Dichloroethane	107-06-2	< 3.9	U	6.3	3.9	ug/Kg
Trichloroethene	79-01-6	< 0.41	U	6.3	0.41	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.42	U	6.3	0.42	ug/Kg
Bromodichloromethane	75-27-4	< 0.42	U	6.3	0.42	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 3.0	U	32	3.0	ug/Kg
Toluene	108-88-3	< 0.33	U	6.3	0.33	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 0.32	U	6.3	0.32	ug/Kg
cis-1,3-Dichloropropene	10061-01-5	< 0.25	U	6.3	0.25	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 0.64	U	6.3	0.64	ug/Kg
2-Hexanone	591-78-6	< 4.0	U	32	4.0	ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-05RE	**Client ID:**	SB-044-8RE
Date Collected:	6/28/2004	**Date Received:**	7/2/2004
Date Analyzed:	7/13/2004	**Matrix:**	SOIL
File ID:	VK071315.D	**Analytical Run ID:**	VK071304
Dilution:	1	**Instrument ID:**	MSVOAK
Analytical Method:	8260	**Associated Blank:**	VBK0713S2
Sample Wt/Wol:	5.0 **Units:** g	**Soil Extract Vol:**	
Soil Aliquot Vol:		**% Moisture:**	21

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.53	U	6.3	0.53	ug/Kg
Tetrachloroethene	127-18-4	< 0.80	U	6.3	0.80	ug/Kg
Chlorobenzene	108-90-7	< 0.45	U	6.3	0.45	ug/Kg
Ethyl Benzene	100-41-4	< 0.32	U	6.3	0.32	ug/Kg
m/p-Xylenes	136777-61-2	< 0.65	U	6.3	0.65	ug/Kg
o-Xylene	95-47-6	< 0.55	U	6.3	0.55	ug/Kg
Styrene	100-42-5	< 0.40	U	6.3	0.40	ug/Kg
Bromoform	75-25-2	< 0.38	U	6.3	0.38	ug/Kg
Isopropylbenzene	98-82-8	< 0.47	U	6.3	0.47	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.67	U	6.3	0.67	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.27	U	6.3	0.27	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.44	U	6.3	0.44	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.52	U	6.3	0.52	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.86	U	6.3	0.86	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.32	U	6.3	0.32	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	36.7	73 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	45.92	92 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	42.71	85 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	52.57	105 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	75921	4.22			
1,4-Difluorobenzene	540-36-3	134867	4.84			
Chlorobenzene-d5	3114-55-4	127644	7.35			
1,4-Dichlorobenzene-d4	3855-82-1	51403	8.79			

Second initial analysis

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-06 Client ID: SB-0412-16

Date Collected: 6/28/2004 Date Received: 7/2/2004
Date Analyzed: 7/8/2004 Matrix: SOIL
File ID: VI070727.D Analytical Run ID: VI062904
Dilution: 1 Instrument ID: MSVOAI
Analytical Method: 8260 Associated Blank: VBI0707S1
Sample Wt/Vol: 5.0 Units: g Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 18

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.5	U	6.1	1.5	ug/Kg
Chloromethane	74-87-3	< 0.40	U	6.1	0.40	ug/Kg
Vinyl chloride	75-01-4	< 0.29	U	6.1	0.29	ug/Kg
Bromomethane	74-83-9	< 0.86	U	6.1	0.86	ug/Kg
Chloroethane	75-00-3	< 0.64	U	6.1	0.64	ug/Kg
Tri ofluoromethane	75-69-4	< 3.0	U	6.1	3.0	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.56	U	6.1	0.56	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.26	U	6.1	0.26	ug/Kg
Acetone	67-64-1	22	JB	30	9.1	ug/Kg
Carbon disulfide	75-15-0	< 0.12	U	6.1	0.12	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.28	U	6.1	0.28	ug/Kg
Methyl Acetate	79-20-9	< 1.6	U	6.1	1.6	ug/Kg
Methylene Chloride	75-09-2	12		6.1	0.83	ug/Kg
rans-1,2-Dichloroethene	156-60-5	< 0.45	U	6.1	0.45	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.43	U	6.1	0.43	ug/Kg
Cyclohexane	110-82-7	< 0.37	U	6.1	0.37	ug/Kg
2-Butanone	78-93-3	< 2.8	U	30	2.8	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.36	U	6.1	0.36	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.43	U	6.1	0.43	ug/Kg
Chloroform	67-66-3	< 0.29	U	6.1	0.29	ug/Kg
,1,1-Trichloroethane	71-55-6	< 0.33	U	6.1	0.33	ug/Kg
Methylcyclohexane	108-87-2	< 0.43	U	6.1	0.43	ug/Kg
Benzene	71-43-2	< 0.25	U	6.1	0.25	ug/Kg
,2-Dichloroethane	107-06-2	< 3.8	U	6.1	3.8	ug/Kg
Trichloroethene	79-01-6	< 0.39	U	6.1	0.39	ug/Kg
,2-Dichloropropane	78-87-5	< 0.41	U	6.1	0.41	ug/Kg
Bro ichloromethane	75-27-4	< 0.41	U	6.1	0.41	ug/Kg
-Methyl-2-Pentanone	108-10-1	< 2.9	U	30	2.9	ug/Kg
Toluene	108-88-3	< 0.32	U	6.1	0.32	ug/Kg
-1,3-Dichloropropene	10061-02-6	< 0.31	U	6.1	0.31	ug/Kg
is-1,3-Dichloropropene	10061-01-5	< 0.24	U	6.1	0.24	ug/Kg
,1,2-Trichloroethane	79-00-5	< 0.62	U	6.1	0.62	ug/Kg
-Hexanone	591-78-6	< 3.9	U	30	3.9	ug/Kg

5x dilution reanalyzed 7/15

JB

JB

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-06 **Client ID:** SB-0412-16

Date Collected: 6/28/2004 **Date Received:** 7/2/2004
Date Analyzed: 7/8/2004 **Matrix:** SOIL
File ID: VI070727.D **Analytical Run ID:** VI062904
Dilution: 1 **Instrument ID:** MSVOAI
Analytical Method: 8260 **Associated Blank:** VBI0707S1
Sample Wt/Wol: 5.0 **Units:** g **Soil Extract Vol:**
Soil Aliquot Vol: **% Moisture:** 18

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.51	U	6.1	0.51	ug/Kg
Tetrachloroethene	127-18-4	< 0.77	U	6.1	0.77	ug/Kg
Chlorobenzene	108-90-7	< 0.43	U	6.1	0.43	ug/Kg
Ethyl Benzene	100-41-4	< 0.30	U	6.1	0.30	ug/Kg
m/p-Xylenes	136777-61-2	< 0.63	U	6.1	0.63	ug/Kg
o-Xylene	95-47-6	< 0.53	U	6.1	0.53	ug/Kg
Sty	100-42-5	< 0.38	U	6.1	0.38	ug/Kg
Bromoform	75-25-2	< 0.36	U	6.1	0.36	ug/Kg
Isopropylbenzene	98-82-8	< 0.45	U	6.1	0.45	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.65	U	6.1	0.65	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.26	U	6.1	0.26	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.43	U	6.1	0.43	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.50	U	6.1	0.50	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.83	U	6.1	0.83	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.30	U	6.1	0.30	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	69.38	139 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	49.9	100 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	53.94	108 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	45.42	91 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	63979	3.86			
1,4-Difluorobenzene	540-36-3	178545	4.32			
Chlorobenzene-d5	3114-55-4	159169	7.40			
1,4-Dichlorobenzene-d4	3855-82-1	40143	9.67			

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-06RE **Client ID:** SB-0412-16RE

Date Collected: 6/28/2004 **Date Received:** 7/2/2004
Date Analyzed: 7/13/2004 **Matrix:** SOIL
File ID: VK071316.D **Analytical Run ID:** VK071304
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0713S2
Sample Wt/Vol: 5.0 **Units:** g **Soil Extract Vol:**
Soil Aliquot Vol: **% Moisture:** 18

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.5	U	6.1	1.5	ug/Kg
Chloromethane	74-87-3	< 0.40	U	6.1	0.40	ug/Kg
Vinyl chloride	75-01-4	< 0.29	U	6.1	0.29	ug/Kg
Bromomethane	74-83-9	< 0.86	U	6.1	0.86	ug/Kg
Chloroethane	75-00-3	< 0.64	U	6.1	0.64	ug/Kg
Tri)ofluoromethane	75-69-4	< 3.0	U	6.1	3.0	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.56	U UJ	6.1	0.56	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.26	U	6.1	0.26	ug/Kg
Acetone	67-64-1	< 9.1	U	30	9.1	ug/Kg
Carbon disulfide	75-15-0	< 0.12	U	6.1	0.12	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.28	U	6.1	0.28	ug/Kg
Methyl Acetate	79-20-9	< 1.6	U	6.1	1.6	ug/Kg
Methylene Chloride	75-09-2	8.7	U ~~B~~	6.1	0.83	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.45	U	6.1	0.45	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.43	U	6.1	0.43	ug/Kg
Cyclohexane	110-82-7	< 0.37	U	6.1	0.37	ug/Kg
2-Butanone	78-93-3	< 2.8	U	30	2.8	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.36	U	6.1	0.36	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.43	U	6.1	0.43	ug/Kg
Chloroform	67-66-3	< 0.29	U	6.1	0.29	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.33	U	6.1	0.33	ug/Kg
Methylcyclohexane	108-87-2	< 0.43	U	6.1	0.43	ug/Kg
Benzene	71-43-2	< 0.25	U UJ	6.1	0.25	ug/Kg
1,2-Dichloroethane	107-06-2	< 3.8	U	6.1	3.8	ug/Kg
Trichloroethene	79-01-6	< 0.39	U	6.1	0.39	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.41	U	6.1	0.41	ug/Kg
Bro ichloromethane	75-27-4	< 0.41	U	6.1	0.41	ug/Kg
4-Mc yl-2-Pentanone	108-10-1	< 2.9	U	30	2.9	ug/Kg
Toluene	108-88-3	< 0.32	U	6.1	0.32	ug/Kg
-1,3-Dichloropropene	10061-02-6	< 0.31	U	6.1	0.31	ug/Kg
cis-1,3-Dichloropropene	10061-01-5	< 0.24	U	6.1	0.24	ug/Kg
,1,2-Trichloroethane	79-00-5	< 0.62	U	6.1	0.62	ug/Kg
2-Hexanone	591-78-6	< 3.9	U	30	3.9	ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-06RE | Client ID: SB-0412-16RE

Date Collected: 6/28/2004 | Date Received: 7/2/2004
Date Analyzed: 7/13/2004 | Matrix: SOIL
File ID: VK071316.D | Analytical Run ID: VK071304
Dilution: 1 | Instrument ID: MSVOAK
Analytical Method: 8260 | Associated Blank: VBK0713S2
Sample Wt/Vol: 5.0 Units: g | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 18

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.51	U	6.1	0.51	ug/K
Tetrachloroethene	127-18-4	< 0.77	U	6.1	0.77	ug/Kg
Chlorobenzene	108-90-7	< 0.43	U	6.1	0.43	ug/Kg
Ethyl Benzene	100-41-4	< 0.30	U	6.1	0.30	ug/Kg
m/p-Xylenes	136777-61-2	< 0.63	U	6.1	0.63	ug/Kg
o-Xylene	95-47-6	< 0.53	U	6.1	0.53	ug/Kg
Sty	100-42-5	< 0.38	U	6.1	0.38	ug/Kg
Bromoform	75-25-2	< 0.36	U	6.1	0.36	ug/Kg
Isopropylbenzene	98-82-8	< 0.45	U	6.1	0.45	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.65	U	6.1	0.65	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.26	U	6.1	0.26	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.43	U	6.1	0.43	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.50	U	6.1	0.50	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.83	U	6.1	0.83	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.30	U	6.1	0.30	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	37.74	75 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	45.18	90 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	41.26	83 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	32.69	65 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	110311	4.22			
1,4-Difluorobenzene	540-36-3	217740	4.84			
Chlorobenzene-d5	3114-55-4	164511	7.34			
1,4-Dichlorobenzene-d4	3855-82-1	41182	8.79			

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-07 **Client ID:** SB-184-8

Date Collected: 6/29/2004 **Date Received:** 7/2/2004
Date Analyzed: 7/13/2004 **Matrix:** SOIL
File ID: VK071317.D **Analytical Run ID:** VK071304
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0713S2
Sample Wt/Vol: 5.0 **Units:** g **Soil Extract Vol:**
Soil Aliquot Vol: **% Moisture:** 15

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.5	U	5.9	1.5	ug/Kg
Chloromethane	74-87-3	< 0.39	U	5.9	0.39	ug/Kg
Vinyl chloride	75-01-4	< 0.28	U	5.9	0.28	ug/Kg
Bromomethane	74-83-9	< 0.83	U	5.9	0.83	ug/Kg
Chloroethane	75-00-3	< 0.62	U	5.9	0.62	ug/Kg
Tri[illegible]pfluoromethane	75-69-4	< 2.9	U	5.9	2.9	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.54	U	5.9	0.54	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.25	U UJ	5.9	0.25	ug/Kg
Acetone	67-64-1	< 8.8	U	29	8.8	ug/Kg
Carbon disulfide	75-15-0	< 0.12	U	5.9	0.12	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.27	U	5.9	0.27	ug/Kg
Methyl Acetate	79-20-9	< 1.5	U	5.9	1.5	ug/Kg
Methylene Chloride	75-09-2	5.9 ~~4.8~~	U ~~UB~~ J	5.9	0.80	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.44	U	5.9	0.44	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.42	U	5.9	0.42	ug/Kg
Cyclohexane	110-82-7	< 0.36	U	5.9	0.36	ug/Kg
2-Butanone	78-93-3	< 2.7	U	29	2.7	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.35	U	5.9	0.35	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.41	U	5.9	0.41	ug/Kg
Chloroform	67-66-3	< 0.28	U	5.9	0.28	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.32	U	5.9	0.32	ug/Kg
Methylcyclohexane	108-87-2	< 0.42	U	5.9	0.42	ug/Kg
Benzene	71-43-2	< 0.24	U UJ	5.9	0.24	ug/Kg
1,2-Dichloroethane	107-06-2	< 3.6	U	5.9	3.6	ug/Kg
Trichloroethene	79-01-6	< 0.38	U	5.9	0.38	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.39	U	5.9	0.39	ug/Kg
Bro[illegible]ichloromethane	75-27-4	< 0.39	U	5.9	0.39	ug/Kg
4-Me[illegible]yl-2-Pentanone	108-10-1	< 2.8	U	29	2.8	ug/Kg
Toluene	108-88-3	< 0.30	U	5.9	0.30	ug/Kg
1,3-Dichloropropene	10061-02-6	< 0.30	U	5.9	0.30	ug/Kg
cis-1,3-Dichloropropene	10061-01-5	< 0.23	U	5.9	0.23	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 0.60	U	5.9	0.60	ug/Kg
2-Hexanone	591-78-6	< 3.8	U	29	3.8	ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-07	Client ID:	SB-184-8
Date Collected:	6/29/2004	Date Received:	7/2/2004
Date Analyzed:	7/13/2004	Matrix:	SOIL
File ID:	VK071317.D	Analytical Run ID:	VK071304
Dilution:	1	Instrument ID:	MSVOAK
Analytical Method:	8260	Associated Blank:	VBK0713S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	15

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.49	U	5.9	0.49	ug/Kg
Tetrachloroethene	127-18-4	< 0.75	U	5.9	0.75	ug/Kg
Chlorobenzene	108-90-7	< 0.41	U	5.9	0.41	ug/Kg
Ethyl Benzene	100-41-4	< 0.29	U	5.9	0.29	ug/Kg
m/p-Xylenes	136777-61-2	< 0.60	U	5.9	0.60	ug/Kg
o-Xylene	95-47-6	< 0.51	U	5.9	0.51	ug/Kg
Sty	100-42-5	< 0.37	U	5.9	0.37	ug/Kg
Bromoform	75-25-2	< 0.35	U	5.9	0.35	ug/Kg
Isopropylbenzene	98-82-8	< 0.44	U	5.9	0.44	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.62	U	5.9	0.62	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.25	U	5.9	0.25	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.41	U	5.9	0.41	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.48	U	5.9	0.48	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.80	U	5.9	0.80	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.29	U	5.9	0.29	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	40.42	81 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	47.18	94 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	44.68	89 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	51.49	103 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	87921	4.22			
1,4-Difluorobenzene	540-36-3	167095	4.84			
Chlorobenzene-d5	3114-55-4	156855	7.34			
1,4-Dichlorobenzene-d4	3855-82-1	62407	8.78			
TENTITIVE IDENTIFIED COMPOUNDS						
~~Trimethoxo-oxovanadium~~ Unknown	7681916	8.5	J	8.25		ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-08	Client ID:	SB-074-8
Date Collected:	6/29/2004	Date Received:	7/2/2004
Date Analyzed:	7/13/2004	Matrix:	SOIL
File ID:	VK071318.D	Analytical Run ID:	VK071304
Dilution:	1	Instrument ID:	MSVOAK
Analytical Method:	8260	Associated Blank:	VBK0713S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	17

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.5	U	6.0	1.5	ug/Kg
Chloromethane	74-87-3	< 0.40	U	6.0	0.40	ug/Kg
Vinyl chloride	75-01-4	< 0.28	U	6.0	0.28	ug/Kg
Bromomethane	74-83-9	< 0.85	U	6.0	0.85	ug/Kg
Chloroethane	75-00-3	< 0.63	U	6.0	0.63	ug/Kg
Tri[illegible]ofluoromethane	75-69-4	< 3.0	U	6.0	3.0	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.55	U UJ	6.0	0.55	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.26	U	6.0	0.26	ug/Kg
Acetone	67-64-1	< 9.0	U	30	9.0	ug/Kg
Carbon disulfide	75-15-0	< 0.12	U	6.0	0.12	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.28	U	6.0	0.28	ug/Kg
Methyl Acetate	79-20-9	< 1.5	U	6.0	1.5	ug/Kg
Methylene Chloride	75-09-2	6.0 ~~5.1~~	U ~~JB~~ J	6.0	0.82	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.45	U	6.0	0.45	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.43	U	6.0	0.43	ug/Kg
Cyclohexane	110-82-7	< 0.37	U	6.0	0.37	ug/Kg
2-Butanone	78-93-3	< 2.7	U	30	2.7	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.36	U	6.0	0.36	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.42	U	6.0	0.42	ug/Kg
Chloroform	67-66-3	< 0.29	U	6.0	0.29	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.33	U	6.0	0.33	ug/Kg
Methylcyclohexane	108-87-2	< 0.43	U	6.0	0.43	ug/Kg
Benzene	71-43-2	< 0.24	U	6.0	0.24	ug/Kg
1,2-Dichloroethane	107-06-2	< 3.7	U UJ	6.0	3.7	ug/Kg
Trichloroethene	79-01-6	< 0.39	U	6.0	0.39	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.40	U	6.0	0.40	ug/Kg
Bromodichloromethane	75-27-4	< 0.40	U	6.0	0.40	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 2.9	U	30	2.9	ug/Kg
Toluene	108-88-3	< 0.31	U	6.0	0.31	ug/Kg
cis-1,3-Dichloropropene	10061-02-6	< 0.31	U	6.0	0.31	ug/Kg
trans-1,3-Dichloropropene	10061-01-5	< 0.23	U	6.0	0.23	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 0.61	U	6.0	0.61	ug/Kg
2-Hexanone	591-78-6	< 3.9	U	30	3.9	ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-08 **Client ID:** SB-074-8

Date Collected: 6/29/2004 **Date Received:** 7/2/2004
Date Analyzed: 7/13/2004 **Matrix:** SOIL
File ID: VK071318.D **Analytical Run ID:** VK071304
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0713S2
Sample Wt/Vol: 5.0 **Units:** g **Soil Extract Vol:**
Soil Aliquot Vol: **% Moisture:** 17

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.50	U	6.0	0.50	ug/Kg
Tetrachloroethene	127-18-4	< 0.77	U	6.0	0.77	ug/Kg
Chlorobenzene	108-90-7	< 0.42	U	6.0	0.42	ug/Kg
Ethyl Benzene	100-41-4	< 0.30	U	6.0	0.30	ug/Kg
m/p-Xylenes	136777-61-2	< 0.62	U	6.0	0.62	ug/Kg
o-Xylene	95-47-6	< 0.52	U	6.0	0.52	ug/Kg
Sty	100-42-5	< 0.38	U	6.0	0.38	ug/Kg
Bromoform	75-25-2	< 0.36	U	6.0	0.36	ug/Kg
Isopropylbenzene	98-82-8	< 0.45	U	6.0	0.45	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.64	U	6.0	0.64	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.25	U	6.0	0.25	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.42	U	6.0	0.42	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.49	U	6.0	0.49	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.82	U	6.0	0.82	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.30	U	6.0	0.30	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	38.51	77 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	47.95	96 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	44.91	90 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	39	78 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	162782	4.21			
1,4-Difluorobenzene	540-36-3	294382	4.83			
Chlorobenzene-d5	3114-55-4	244698	7.33			
1,4-Dichlorobenzene-d4	3855-82-1	96774	8.75			
TENTITIVE IDENTIFIED COMPOUNDS						
~~Naphthalene, decahydro-, trans-~~	493027 C10H18	110	J	8.94		ug/Kg
Cyc xane, ~~2,4-~~ diethyl ~~1~~ methy	61142709	37	J	9.03		ug/Kg
~~Cyclooctane, (2-methylpropyl)-~~ unknown	1678984	57	J	9.07		ug/Kg
~~Cyclohexanone, 5-methyl-2-(1-me~~ unknown	15932806	73	J	9.27		ug/Kg
~~Bicyclo[4.1.0]heptan-3-one, 4,7,7-~~ C11H20	4176049	71	J	9.38		ug/Kg
~~Cyclohexanone, 2-methyl-5-(1-me~~ unknown	5948049	55	J	9.58		ug/Kg
~~Cyclohexanone, 2-(2-butynyl)-~~ unknown	54166482	34	J	9.66		ug/Kg
~~Undecane, 4,7-dimethyl-2-hex~~ unknown	54411959	35	J	9.92		ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-09	Client ID:	SB-334-8
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/9/2004	Matrix:	SOIL
File ID:	VI070913.D	Analytical Run ID:	VI070804
Dilution:	1	Instrument ID:	MSVOAI
Analytical Method:	8260	Associated Blank:	VBI0709S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	23

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.6	U	6.5	1.6	ug/Kg
Chloromethane	74-87-3	< 0.43	U	6.5	0.43	ug/Kg
Vinyl chloride	75-01-4	< 0.31	U	6.5	0.31	ug/Kg
Bromomethane	74-83-9	< 0.92	U	6.5	0.92	ug/Kg
Chloroethane	75-00-3	< 0.68	U	6.5	0.68	ug/Kg
Tri ofluoromethane	75-69-4	< 3.2	U	6.5	3.2	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.60	U	6.5	0.60	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.28	U	6.5	0.28	ug/Kg
Acetone	67-64-1	< 9.7	U	32	9.7	ug/Kg
Carbon disulfide	75-15-0	< 0.13	U	6.5	0.13	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.30	U	6.5	0.30	ug/Kg
Methyl Acetate	79-20-9	< 1.7	U	6.5	1.7	ug/Kg
Methylene Chloride	75-09-2	2.2	J	6.5	0.88	ug/Kg
rans-1,2-Dichloroethene	156-60-5	< 0.48	U	6.5	0.48	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.46	U	6.5	0.46	ug/Kg
Cyclohexane	110-82-7	< 0.40	U	6.5	0.40	ug/Kg
2-Butanone	78-93-3	< 3.0	U	32	3.0	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.39	U	6.5	0.39	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.46	U	6.5	0.46	ug/Kg
Chloroform	67-66-3	< 0.31	U	6.5	0.31	ug/Kg
,1,1-Trichloroethane	71-55-6	< 0.35	U	6.5	0.35	ug/Kg
Methylcyclohexane	108-87-2	< 0.46	U	6.5	0.46	ug/Kg
Benzene	71-43-2	< 0.26	U	6.5	0.26	ug/Kg
,2-Dichloroethane	107-06-2	< 4.0	U	6.5	4.0	ug/Kg
Trichloroethene	79-01-6	< 0.42	U	6.5	0.42	ug/Kg
,2-Dichloropropane	78-87-5	< 0.44	U	6.5	0.44	ug/Kg
Bro dichloromethane	75-27-4	< 0.43	U	6.5	0.43	ug/Kg
-Methyl-2-Pentanone	108-10-1	< 3.1	U	32	3.1	ug/Kg
Toluene	108-88-3	< 0.34	U	6.5	0.34	ug/Kg
-1,3-Dichloropropene	10061-02-6	< 0.33	U	6.5	0.33	ug/Kg
is-1,3-Dichloropropene	10061-01-5	< 0.25	U	6.5	0.25	ug/Kg
,1,2-Trichloroethane	79-00-5	< 0.66	U	6.5	0.66	ug/Kg
-Hexanone	591-78-6	< 4.2	U	32	4.2	ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-09 Client ID: SB-334-8

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/9/2004 Matrix: SOIL
File ID: VI070913.D Analytical Run ID: VI070804
Dilution: 1 Instrument ID: MSVOAI
Analytical Method: 8260 Associated Blank: VBI0709S2
Sample Wt/Vol: 5.0 Units: g Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 23

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.54	U	6.5	0.54	ug/Kg
Tetrachloroethene	127-18-4	< 0.82	U	6.5	0.82	ug/Kg
Chlorobenzene	108-90-7	< 0.46	U	6.5	0.46	ug/Kg
Ethyl Benzene	100-41-4	< 0.32	U	6.5	0.32	ug/Kg
m/p-Xylenes	136777-61-2	< 0.67	U	6.5	0.67	ug/Kg
o-Xylene	95-47-6	< 0.56	U	6.5	0.56	ug/Kg
Sty	100-42-5	< 0.41	U	6.5	0.41	ug/Kg
Bromoform	75-25-2	< 0.39	U	6.5	0.39	ug/Kg
Isopropylbenzene	98-82-8	< 0.48	U	6.5	0.48	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.69	U	6.5	0.69	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.27	U	6.5	0.27	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.46	U	6.5	0.46	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.53	U	6.5	0.53	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.88	U	6.5	0.88	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.32	U	6.5	0.32	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	36.06	72 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	50.27	101 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	44.02	88 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	26.23	52 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	636365	3.86			
1,4-Difluorobenzene	540-36-3	1055717	4.32			
Chlorobenzene-d5	3114-55-4	692699	7.40			
1,4-Dichlorobenzene-d4	3855-82-1	182956	9.67			

see separated analysis

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-09RE	Client ID:	SB-334-8RE
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/13/2004	Matrix:	SOIL
File ID:	VK071319.D	Analytical Run ID:	VK071304
Dilution:	1	Instrument ID:	MSVOAK
Analytical Method:	8260	Associated Blank:	VBK0713S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	23

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.6	U	6.5	1.6	ug/Kg
Chloromethane	74-87-3	< 0.43	U	6.5	0.43	ug/Kg
Vinyl chloride	75-01-4	< 0.31	U	6.5	0.31	ug/Kg
Bromomethane	74-83-9	< 0.92	U	6.5	0.92	ug/Kg
Chloroethane	75-00-3	< 0.68	U	6.5	0.68	ug/Kg
Tri ofluoromethane	75-69-4	< 3.2	U	6.5	3.2	ug/Kg
1,1,2- richlorotrifluoroethane	76-13-1	< 0.60	U	6.5	0.60	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.28	U	6.5	0.28	ug/Kg
Acetone	67-64-1	< 9.7	U	32	9.7	ug/Kg
Carbon disulfide	75-15-0	< 0.13	U	6.5	0.13	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.30	U	6.5	0.30	ug/Kg
Methyl Acetate	79-20-9	< 1.7	U	6.5	1.7	ug/Kg
Methylene Chloride	75-09-2	6.5 ~~4.7~~	U ~~B~~ J	6.5	0.88	ug/Kg
rans-1,2-Dichloroethene	156-60-5	< 0.48	U	6.5	0.48	ug/Kg
,1-Dichloroethane	75-34-3	< 0.46	U	6.5	0.46	ug/Kg
Cyclohexane	110-82-7	< 0.40	U	6.5	0.40	ug/Kg
-Butanone	78-93-3	< 3.0	U	32	3.0	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.39	U	6.5	0.39	ug/Kg
is-1,2-Dichloroethene	156-59-2	< 0.46	U	6.5	0.46	ug/Kg
Chloroform	67-66-3	< 0.31	U	6.5	0.31	ug/Kg
,1,1-Trichloroethane	71-55-6	< 0.35	U	6.5	0.35	ug/Kg
Methylcyclohexane	108-87-2	< 0.46	U	6.5	0.46	ug/Kg
Benzene	71-43-2	< 0.26	U	6.5	0.26	ug/Kg
,2-Dichloroethane	107-06-2	< 4.0	U	6.5	4.0	ug/Kg
Trichloroethene	79-01-6	< 0.42	U	6.5	0.42	ug/Kg
,2-Dichloropropane	78-87-5	< 0.44	U	6.5	0.44	ug/Kg
ror dichloromethane	75-27-4	< 0.43	U	6.5	0.43	ug/Kg
-M yl-2-Pentanone	108-10-1	< 3.1	U	32	3.1	ug/Kg
oluene	108-88-3	< 0.34	U	6.5	0.34	ug/Kg
1,3-Dichloropropene	10061-02-6	< 0.33	U	6.5	0.33	ug/Kg
s-1,3-Dichloropropene	10061-01-5	< 0.25	U	6.5	0.25	ug/Kg
1,2-Trichloroethane	79-00-5	< 0.66	U	6.5	0.66	ug/Kg
-Hexanone	591-78-6	< 4.2	U	32	4.2	ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-09RE	**Client ID:**	SB-334-8RE
Date Collected:	6/30/2004	**Date Received:**	7/2/2004
Date Analyzed:	7/13/2004	**Matrix:**	SOIL
File ID:	VK071319.D	**Analytical Run ID:**	VK071304
Dilution:	1	**Instrument ID:**	MSVOAK
Analytical Method:	8260	**Associated Blank:**	VBK0713S2
Sample Wt/Vol:	5.0 Units: g	**Soil Extract Vol:**	
Soil Aliquot Vol:		**% Moisture:**	23

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.54	U	6.5	0.54	ug/Kg
Tetrachloroethene	127-18-4	< 0.82	U	6.5	0.82	ug/Kg
Chlorobenzene	108-90-7	< 0.46	U	6.5	0.46	ug/Kg
Ethyl Benzene	100-41-4	< 0.32	U	6.5	0.32	ug/Kg
m/p-Xylenes	136777-61-2	< 0.67	U	6.5	0.67	ug/Kg
o-Xylene	95-47-6	< 0.56	U	6.5	0.56	ug/Kg
Sty	100-42-5	< 0.41	U	6.5	0.41	ug/Kg
Bromoform	75-25-2	< 0.39	U	6.5	0.39	ug/Kg
Isopropylbenzene	98-82-8	< 0.48	U	6.5	0.48	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.69	U	6.5	0.69	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.27	U	6.5	0.27	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.46	U	6.5	0.46	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.53	U	6.5	0.53	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.88	U	6.5	0.88	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.32	U	6.5	0.32	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	36.31	73 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	43.84	88 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	43.68	87 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	41.79	84 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	175213	4.21			
1,4-Difluorobenzene	540-36-3	328572	4.83			
Chlorobenzene-d5	3114-55-4	218186	7.33			
1,4-Dichlorobenzene-d4	3855-82-1	87752	8.76			

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-10	Client ID:	SB-290-4
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/13/2004	Matrix:	SOIL
File ID:	VK071322.D	Analytical Run ID:	VK071304
Dilution:	1	Instrument ID:	MSVOAK
Analytical Method:	8260	Associated Blank:	VBK0713S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	7

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.3	U	5.4	1.3	ug/Kg
Chloromethane	74-87-3	< 0.36	U	5.4	0.36	ug/Kg
Vinyl chloride	75-01-4	< 0.25	U	5.4	0.25	ug/Kg
Bromomethane	74-83-9	< 0.76	U	5.4	0.76	ug/Kg
Chloroethane	75-00-3	< 0.56	U	5.4	0.56	ug/Kg
Tri)ofluoromethane	75-69-4	< 2.6	U	5.4	2.6	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.49	U UJ	5.4	0.49	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.23	U	5.4	0.23	ug/Kg
Acetone	67-64-1	< 8.0	U	27	8.0	ug/Kg
Carbon disulfide	75-15-0	< 0.11	U	5.4	0.11	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.25	U	5.4	0.25	ug/Kg
Methyl Acetate	79-20-9	< 1.4	U	5.4	1.4	ug/Kg
Methylene Chloride	75-09-2	6.9	U/B J	5.4	0.73	ug/Kg
rans-1,2-Dichloroethene	156-60-5	< 0.40	U	5.4	0.40	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.38	U	5.4	0.38	ug/Kg
Cyclohexane	110-82-7	< 0.33	U	5.4	0.33	ug/Kg
2-Butanone	78-93-3	< 2.4	U	27	2.4	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.32	U	5.4	0.32	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.38	U	5.4	0.38	ug/Kg
Chloroform	67-66-3	< 0.25	U	5.4	0.25	ug/Kg
,1,1-Trichloroethane	71-55-6	< 0.29	U	5.4	0.29	ug/Kg
Methylcyclohexane	108-87-2	< 0.38	U	5.4	0.38	ug/Kg
Benzene	71-43-2	< 0.22	U	5.4	0.22	ug/Kg
,2-Dichloroethane	107-06-2	< 3.3	U UJ	5.4	3.3	ug/Kg
Trichloroethene	79-01-6	< 0.34	U	5.4	0.34	ug/Kg
,2-Dichloropropane	78-87-5	< 0.36	U	5.4	0.36	ug/Kg
Bro dichloromethane	75-27-4	< 0.36	U	5.4	0.36	ug/Kg
-M yl-2-Pentanone	108-10-1	< 2.6	U	27	2.6	ug/Kg
Toluene	108-88-3	< 0.28	U	5.4	0.28	ug/Kg
-1,3-Dichloropropene	10061-02-6	< 0.28	U	5.4	0.28	ug/Kg
is-1,3-Dichloropropene	10061-01-5	< 0.21	U	5.4	0.21	ug/Kg
,1,2-Trichloroethane	79-00-5	< 0.54	U	5.4	0.54	ug/Kg
-Hexanone	591-78-6	< 3.4	U	27	3.4	ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-10	Client ID:	SB-290-4
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/13/2004	Matrix:	SOIL
File ID:	VK071322.D	Analytical Run ID:	VK071304
Dilution:	1	Instrument ID:	MSVOAK
Analytical Method:	8260	Associated Blank:	VBK0713S2
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	7

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.45	U	5.4	0.45	ug/Kg
Tetrachloroethene	127-18-4	< 0.68	U	5.4	0.68	ug/Kg
Chlorobenzene	108-90-7	< 0.38	U	5.4	0.38	ug/Kg
Ethyl Benzene	100-41-4	< 0.27	U	5.4	0.27	ug/Kg
m/p-Xylenes	136777-61-2	< 0.55	U	5.4	0.55	ug/Kg
o-Xylene	95-47-6	< 0.46	U	5.4	0.46	ug/Kg
Sty	100-42-5	< 0.34	U	5.4	0.34	ug/Kg
Bromoform	75-25-2	< 0.32	U	5.4	0.32	ug/Kg
Isopropylbenzene	98-82-8	< 0.40	U	5.4	0.40	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.57	U	5.4	0.57	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.23	U	5.4	0.23	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.38	U	5.4	0.38	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.44	U	5.4	0.44	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.73	U	5.4	0.73	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.27	U	5.4	0.27	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	38.08	76 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	48.28	97 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	47.13	94 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	45.86	92 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	185461	4.21			
1,4-Difluorobenzene	540-36-3	334759	4.83			
Chlorobenzene-d5	3114-55-4	252963	7.33			
1,4-Dichlorobenzene-d4	3855-82-1	102706	8.76			
TENTITIVE IDENTIFIED COMPOUNDS						
~~Benzene, 1-methyl-2-(1-methyleth~~	~~527844~~ C10H14 isomer	17	J	8.92		ug/Kg
~~Be~~ e, 1,2,3,5-tetramethyl-	~~527537~~ C10H14 isomer	19	J	9.35		ug/Kg
~~Benzene, 1,3-dimethyl-5-(1-methyl-~~	~~4706905~~ C11H16	29	J	9.38		ug/Kg
~~Benzene, 1-methyl-4-(1-methyleth~~	~~99876~~ unknown	25	J	9.57		ug/Kg
~~Benzene, 1-ethyl-2,4,5-trimethyl-~~	~~17851273~~ C11H16	23	J	9.74		ug/Kg
~~1-Propanone, 3-cyclopentyl-1-(2,~~	~~55191112~~ unknown	24	J	9.81		ug/Kg
~~Phenol, 4-cyclopentyl-~~	~~1518838~~ unknown	19	J	9.93		ug/Kg
~~1H-Indene, 2,3-dihydro-1,2-dimet~~	~~1705782~~ unknown	20	J	10.22		ug/Kg

Chemtech

Volatiles
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SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-10	Client ID:	SB-290-4
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/13/2004	Matrix:	SOIL
File ID:	VK071322.D	Analytical Run ID:	VK071304
Dilution:	1	Instrument ID:	MSVOAK
Analytical Method:	8260	Associated Blank:	VBK0713S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	7

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
~~1H-Indene, 1-ethylidene-~~	2471832 Unknown	19	J	10.74		ug/Kg

JB

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-11 Client ID: SB-348-12

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/13/2004 Matrix: SOIL
File ID: VK071323.D Analytical Run ID: VK071304
Dilution: 1 Instrument ID: MSVOAK
Analytical Method: 8260 Associated Blank: VBK0713S2
Sample Wt/Vol: 5.0 Units: g Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 14

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.4	U	5.8	1.4	ug/Kg
Chloromethane	74-87-3	< 0.38	U	5.8	0.38	ug/Kg
Vinyl chloride	75-01-4	< 0.27	U	5.8	0.27	ug/Kg
Bromomethane	74-83-9	< 0.82	U	5.8	0.82	ug/Kg
Chloroethane	75-00-3	< 0.61	U	5.8	0.61	ug/Kg
Tr[illegible]rofluoromethane	75-69-4	< 2.9	U	5.8	2.9	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.53	U	5.8	0.53	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.25	U	5.8	0.25	ug/Kg
Acetone	67-64-1	< 8.7	U	29	8.7	ug/Kg
Carbon disulfide	75-15-0	< 0.12	U	5.8	0.12	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.27	U	5.8	0.27	ug/Kg
Methyl Acetate	79-20-9	< 1.5	U	5.8	1.5	ug/Kg
Methylene Chloride	75-09-2	7.4	U B J	5.8	0.79	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.43	U	5.8	0.43	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.41	U	5.8	0.41	ug/Kg
Cyclohexane	110-82-7	< 0.35	U	5.8	0.35	ug/Kg
2-Butanone	78-93-3	< 2.6	U	29	2.6	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.35	U	5.8	0.35	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.41	U	5.8	0.41	ug/Kg
Chloroform	67-66-3	< 0.28	U	5.8	0.28	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.32	U	5.8	0.32	ug/Kg
Methylcyclohexane	108-87-2	< 0.41	U	5.8	0.41	ug/Kg
Benzene	71-43-2	< 0.23	U	5.8	0.23	ug/Kg
1,2-Dichloroethane	107-06-2	< 3.6	U	5.8	3.6	ug/Kg
Trichloroethene	79-01-6	< 0.37	U	5.8	0.37	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.39	U	5.8	0.39	ug/Kg
Br[illegible]dichloromethane	75-27-4	< 0.39	U	5.8	0.39	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 2.8	U	29	2.8	ug/Kg
Toluene	108-88-3	< 0.30	U	5.8	0.30	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 0.30	U	5.8	0.30	ug/Kg
cis-1,3-Dichloropropene	10061-01-5	< 0.23	U	5.8	0.23	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 0.59	U	5.8	0.59	ug/Kg
2-Hexanone	591-78-6	< 3.7	U	29	3.7	ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-11 **Client ID:** SB-348-12

Date Collected: 6/30/2004 **Date Received:** 7/2/2004
Date Analyzed: 7/13/2004 **Matrix:** SOIL
File ID: VK071323.D **Analytical Run ID:** VK071304
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0713S2
Sample Wt/Wol: 5.0 **Units:** g **Soil Extract Vol:**
Soil Aliquot Vol: **% Moisture:** 14

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.48	U	5.8	0.48	ug/Kg
Tetrachloroethene	127-18-4	< 0.74	U	5.8	0.74	ug/Kg
Chlorobenzene	108-90-7	< 0.41	U	5.8	0.41	ug/Kg
Ethyl Benzene	100-41-4	< 0.29	U	5.8	0.29	ug/Kg
m/p-Xylenes	136777-61-2	< 0.60	U	5.8	0.60	ug/Kg
o-Xylene	95-47-6	< 0.50	U	5.8	0.50	ug/Kg
Styrene	100-42-5	< 0.36	U	5.8	0.36	ug/Kg
Bromoform	75-25-2	< 0.35	U	5.8	0.35	ug/Kg
Isopropylbenzene	98-82-8	< 0.43	U	5.8	0.43	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.62	U	5.8	0.62	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.25	U	5.8	0.25	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.41	U	5.8	0.41	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.48	U	5.8	0.48	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.79	U	5.8	0.79	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.29	U	5.8	0.29	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	37.78	76 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	46.09	92 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	46.03	92 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	47.54	95 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	190405	4.22			
1,4-Difluorobenzene	540-36-3	350652	4.84			
Chlorobenzene-d5	3114-55-4	247145	7.33			
1,4-Dichlorobenzene-d4	3855-82-1	111013	8.75			

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-12 | Client ID: SB-348-12DUP

Date Collected: 6/30/2004 | Date Received: 7/2/2004
Date Analyzed: 7/9/2004 | Matrix: SOIL
File ID: VI070914.D | Analytical Run ID: VI070804
Dilution: 1 | Instrument ID: MSVOAI
Analytical Method: 8260 | Associated Blank: VBI0709S2
Sample Wt/Wol: 5.0 Units: g | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 10

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.4	U	5.6	1.4	ug/Kg
Chloromethane	74-87-3	< 0.37	U	5.6	0.37	ug/Kg
Vinyl chloride	75-01-4	< 0.26	U	5.6	0.26	ug/Kg
Bromomethane	74-83-9	< 0.79	U	5.6	0.79	ug/Kg
Chloroethane	75-00-3	< 0.58	U	5.6	0.58	ug/Kg
Tr rofluoromethane	75-69-4	< 2.7	U	5.6	2.7	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.51	U	5.6	0.51	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.24	U	5.6	0.24	ug/Kg
Acetone	67-64-1	< 8.3	U	28	8.3	ug/Kg
Carbon disulfide	75-15-0	< 0.11	U	5.6	0.11	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.25	U	5.6	0.25	ug/Kg
Methyl Acetate	79-20-9	< 1.4	U	5.6	1.4	ug/Kg
Methylene Chloride	75-09-2	5.6 ~~3.6~~	U ~~J~~	5.6	0.76	ug/Kg
rans-1,2-Dichloroethene	156-60-5	< 0.41	U	5.6	0.41	ug/Kg
,1-Dichloroethane	75-34-3	< 0.39	U	5.6	0.39	ug/Kg
Cyclohexane	110-82-7	< 0.34	U	5.6	0.34	ug/Kg
2-Butanone	78-93-3	< 2.5	U	28	2.5	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.33	U	5.6	0.33	ug/Kg
is-1,2-Dichloroethene	156-59-2	< 0.39	U	5.6	0.39	ug/Kg
Chloroform	67-66-3	< 0.26	U	5.6	0.26	ug/Kg
,1,1-Trichloroethane	71-55-6	< 0.30	U	5.6	0.30	ug/Kg
Methylcyclohexane	108-87-2	< 0.39	U	5.6	0.39	ug/Kg
Benzene	71-43-2	< 0.22	U	5.6	0.22	ug/Kg
,2-Dichloroethane	107-06-2	< 3.4	U	5.6	3.4	ug/Kg
Trichloroethene	79-01-6	< 0.36	U	5.6	0.36	ug/Kg
,2-Dichloropropane	78-87-5	< 0.37	U	5.6	0.37	ug/Kg
Bro dichloromethane	75-27-4	< 0.37	U	5.6	0.37	ug/Kg
-M. yl-2-Pentanone	108-10-1	< 2.7	U	28	2.7	ug/Kg
oluene	108-88-3	< 0.29	U	5.6	0.29	ug/Kg
1,3-Dichloropropene	10061-02-6	< 0.28	U	5.6	0.28	ug/Kg
s-1,3-Dichloropropene	10061-01-5	< 0.22	U	5.6	0.22	ug/Kg
,1,2-Trichloroethane	79-00-5	< 0.56	U	5.6	0.56	ug/Kg
-Hexanone	591-78-6	< 3.6	U	28	3.6	ug/Kg

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-12	Client ID:	SB-348-12DUP
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/9/2004	Matrix:	SOIL
File ID:	VI070914.D	Analytical Run ID:	VI070804
Dilution:	1	Instrument ID:	MSVOAI
Analytical Method:	8260	Associated Blank:	VBI0709S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	10

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.46	U	5.6	0.46	ug/Kg
Tetrachloroethene	127-18-4	< 0.71	U	5.6	0.71	ug/Kg
Chlorobenzene	108-90-7	< 0.39	U	5.6	0.39	ug/Kg
Ethyl Benzene	100-41-4	< 0.28	U	5.6	0.28	ug/Kg
m/p-Xylenes	136777-61-2	< 0.57	U	5.6	0.57	ug/Kg
o-Xylene	95-47-6	< 0.48	U	5.6	0.48	ug/Kg
Styr	100-42-5	< 0.35	U	5.6	0.35	ug/Kg
Bromoform	75-25-2	< 0.33	U	5.6	0.33	ug/Kg
Isopropylbenzene	98-82-8	< 0.41	U	5.6	0.41	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.59	U	5.6	0.59	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.23	U	5.6	0.23	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.39	U	5.6	0.39	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.45	U	5.6	0.45	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.75	U	5.6	0.75	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.28	U	5.6	0.28	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	41.34	83 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	44.09	88 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	45.74	91 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	48.59	97 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	170474	3.86			
1,4-Difluorobenzene	540-36-3	301312	4.32			
Chlorobenzene-d5	3114-55-4	281842	7.40			
1,4-Dichlorobenzene-d4	3855-82-1	126338	9.67			

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-12RE | Client ID: SB-348-12DUPRE

Date Collected: 6/30/2004 | Date Received: 7/2/2004
Date Analyzed: 7/13/2004 | Matrix: SOIL
File ID: VK071324.D | Analytical Run ID: VK071304
Dilution: 1 | Instrument ID: MSVOAK
Analytical Method: 8260 | Associated Blank: VBK0713S2
Sample Wt/Vol: 5.0 Units: g | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 10

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.4	U	5.6	1.4	ug/Kg
Chloromethane	74-87-3	< 0.37	U	5.6	0.37	ug/Kg
Vinyl chloride	75-01-4	< 0.26	U	5.6	0.26	ug/Kg
Bromomethane	74-83-9	< 0.79	U	5.6	0.79	ug/Kg
Chloroethane	75-00-3	< 0.58	U	5.6	0.58	ug/Kg
Tric pfluoromethane	75-69-4	< 2.7	U	5.6	2.7	ug/Kg
,1,2-Trichlorotrifluoroethane	76-13-1	< 0.51	U UJ	5.6	0.51	ug/Kg
,1-Dichloroethene	75-35-4	< 0.24	U	5.6	0.24	ug/Kg
Acetone	67-64-1	< 8.3	U	28	8.3	ug/Kg
Carbon disulfide	75-15-0	< 0.11	U	5.6	0.11	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.25	U	5.6	0.25	ug/Kg
Methyl Acetate	79-20-9	< 1.4	U	5.6	1.4	ug/Kg
Methylene Chloride	75-09-2	5.1	JB J	5.6	0.76	ug/Kg
rans-1,2-Dichloroethene	156-60-5	< 0.41	U	5.6	0.41	ug/Kg
,1-Dichloroethane	75-34-3	< 0.39	U	5.6	0.39	ug/Kg
Cyclohexane	110-82-7	< 0.34	U	5.6	0.34	ug/Kg
-Butanone	78-93-3	< 2.5	U	28	2.5	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.33	U	5.6	0.33	ug/Kg
is-1,2-Dichloroethene	156-59-2	< 0.39	U	5.6	0.39	ug/Kg
Chloroform	67-66-3	< 0.26	U	5.6	0.26	ug/Kg
,1,1-Trichloroethane	71-55-6	< 0.30	U	5.6	0.30	ug/Kg
Methylcyclohexane	108-87-2	< 0.39	U	5.6	0.39	ug/Kg
Benzene	71-43-2	< 0.22	U	5.6	0.22	ug/Kg
,2-Dichloroethane	107-06-2	< 3.4	U UJ	5.6	3.4	ug/Kg
richloroethene	79-01-6	< 0.36	U	5.6	0.36	ug/Kg
,2-Dichloropropane	78-87-5	< 0.37	U	5.6	0.37	ug/Kg
rom chloromethane	75-27-4	< 0.37	U	5.6	0.37	ug/Kg
-Me 1-2-Pentanone	108-10-1	< 2.7	U	28	2.7	ug/Kg
oluene	108-88-3	< 0.29	U	5.6	0.29	ug/Kg
1,3-Dichloropropene	10061-02-6	< 0.28	U	5.6	0.28	ug/Kg
s-1,3-Dichloropropene	10061-01-5	< 0.22	U	5.6	0.22	ug/Kg
1,2-Trichloroethane	79-00-5	< 0.56	U	5.6	0.56	ug/Kg
-Hexanone	591-78-6	< 3.6	U	28	3.6	ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-12RE	Client ID:	SB-348-12DUPRE
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/13/2004	Matrix:	SOIL
File ID:	VK071324.D	Analytical Run ID:	VK071304
Dilution:	1	Instrument ID:	MSVOAK
Analytical Method:	8260	Associated Blank:	VBK0713S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	10

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.46	U	5.6	0.46	ug/Kg
Tetrachloroethene	127-18-4	< 0.71	U	5.6	0.71	ug/Kg
Chlorobenzene	108-90-7	< 0.39	U	5.6	0.39	ug/Kg
Ethyl Benzene	100-41-4	< 0.28	U	5.6	0.28	ug/Kg
m/p-Xylenes	136777-61-2	< 0.57	U	5.6	0.57	ug/Kg
o-Xylene	95-47-6	< 0.48	U	5.6	0.48	ug/Kg
Styr	100-42-5	< 0.35	U	5.6	0.35	ug/Kg
Bromoform	75-25-2	< 0.33	U	5.6	0.33	ug/Kg
Isopropylbenzene	98-82-8	< 0.41	U	5.6	0.41	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.59	U	5.6	0.59	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.23	U	5.6	0.23	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.39	U	5.6	0.39	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.45	U	5.6	0.45	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.75	U	5.6	0.75	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.28	U	5.6	0.28	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	34.67	69 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	55.04	110 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	41.47	83 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	61.38	123 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	37846	4.22			
1,4-Difluorobenzene	540-36-3	56360	4.86			
Chlorobenzene-d5	3114-55-4	60532	7.39			
1,4-Dichlorobenzene-d4	3855-82-1	22640	8.84			
TENTITIVE IDENTIFIED COMPOUNDS						
~~Benzene, (2-methyl-2-propenyl)-~~	3290537 C10H12	11	J	9.61		ug/Kg
~~1H-Indene, 2,3-dihydro-1,1-dimet~~	4912929 unknown	11	J	9.79		ug/Kg
~~Naphthalen-1,4-imine, 1,2,3,4-te~~	55257993 C11H14	19	J	9.83		ug/Kg
~~1,8-Dihydronaphthol~~	0 unknown	13	J	10.06		ug/Kg
~~Acetamide, 2-cyano-~~	107915 unknown	9.6	J	10.14		ug/Kg
~~Naphthalene, 1,2,3,4-tetrahydro-1-~~	1559815 C11H14	14	J	10.24		ug/Kg
~~5-Quinolinol~~	580165 unknown	10	J	10.47		ug/Kg
~~2,4-Cyclohexadien-1-one, 4,6-dime~~	51738159 unknown	6.6	J	10.65		ug/Kg

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Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-13	Client ID:	SB-324-8
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/9/2004	Matrix:	SOIL
File ID:	VI070916.D	Analytical Run ID:	VI070804
Dilution:	1	Instrument ID:	MSVOAI
Analytical Method:	8260	Associated Blank:	VBI0709S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	12

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.4	U	5.7	1.4	ug/Kg
Chloromethane	74-87-3	< 0.38	U	5.7	0.38	ug/Kg
Vinyl chloride	75-01-4	< 0.27	U	5.7	0.27	ug/Kg
Bromomethane	74-83-9	< 0.80	U	5.7	0.80	ug/Kg
Chloroethane	75-00-3	< 0.60	U	5.7	0.60	ug/Kg
Trichlorofluoromethane	75-69-4	< 2.8	U	5.7	2.8	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.52	U	5.7	0.52	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.24	U	5.7	0.24	ug/Kg
Acetone	67-64-1	< 8.5	U	28	8.5	ug/Kg
Carbon disulfide	75-15-0	< 0.11	U	5.7	0.11	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.26	U	5.7	0.26	ug/Kg
Methyl Acetate	79-20-9	< 1.4	U	5.7	1.4	ug/Kg
Methylene Chloride	75-09-2	< 0.77	U	5.7	0.77	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.42	U	5.7	0.42	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.40	U	5.7	0.40	ug/Kg
Cyclohexane	110-82-7	< 0.35	U	5.7	0.35	ug/Kg
2-Butanone	78-93-3	< 2.6	U	28	2.6	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.34	U	5.7	0.34	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.40	U	5.7	0.40	ug/Kg
Chloroform	67-66-3	< 0.27	U	5.7	0.27	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.31	U	5.7	0.31	ug/Kg
Methylcyclohexane	108-87-2	< 0.40	U	5.7	0.40	ug/Kg
Benzene	71-43-2	< 0.23	~~U~~ UJ	5.7	0.23	ug/Kg
1,2-Dichloroethane	107-06-2	< 3.5	U	5.7	3.5	ug/Kg
Trichloroethene	79-01-6	< 0.36	~~U~~ UJ	5.7	0.36	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.38	U	5.7	0.38	ug/Kg
Bromodichloromethane	75-27-4	< 0.38	U	5.7	0.38	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 2.7	U	28	2.7	ug/Kg
Toluene	108-88-3	< 0.29	U	5.7	0.29	ug/Kg
trans-1,3-Dichloropropene	10061-02-6	< 0.29	U	5.7	0.29	ug/Kg
cis-1,3-Dichloropropene	10061-01-5	< 0.22	~~U~~ UJ	5.7	0.22	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 0.57	U	5.7	0.57	ug/Kg
2-Hexanone	591-78-6	< 3.6	U	28	3.6	ug/Kg

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-13	**Client ID:**	SB-324-8
Date Collected:	6/30/2004	**Date Received:**	7/2/2004
Date Analyzed:	7/9/2004	**Matrix:**	SOIL
File ID:	VI070916.D	**Analytical Run ID:**	VI070804
Dilution:	1	**Instrument ID:**	MSVOAI
Analytical Method:	8260	**Associated Blank:**	VBI0709S2
Sample Wt/Wol:	5.0 **Units:** g	**Soil Extract Vol:**	
Soil Aliquot Vol:		**% Moisture:**	12

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.47	U	5.7	0.47	ug/Kg
Tetrachloroethene	127-18-4	< 0.72	U	5.7	0.72	ug/Kg
Chlorobenzene	108-90-7	< 0.40	U	5.7	0.40	ug/Kg
Ethyl Benzene	100-41-4	< 0.28	U	5.7	0.28	ug/Kg
m/p-Xylenes	136777-61-2	< 0.58	U	5.7	0.58	ug/Kg
o-Xylene	95-47-6	< 0.49	U	5.7	0.49	ug/Kg
Styr	100-42-5	< 0.36	U	5.7	0.36	ug/Kg
Bromoform	75-25-2	< 0.34	U	5.7	0.34	ug/Kg
Isopropylbenzene	98-82-8	< 0.42	U	5.7	0.42	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.60	U	5.7	0.60	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.24	U	5.7	0.24	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.40	U	5.7	0.40	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.46	U	5.7	0.46	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.77	U	5.7	0.77	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.28	U	5.7	0.28	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	39.16	78 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	50.12	100 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	45.88	92 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	44.87	90 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	461038	3.86			
1,4-Difluorobenzene	540-36-3	807889	4.32			
Chlorobenzene-d5	3114-55-4	738731	7.40			
1,4-Dichlorobenzene-d4	3855-82-1	320661	9.67			

Chemtech

Volatiles
SW-846

SDG No.: S3409
Client: Chazen Companies

Sample ID: S3409-14 | Client ID: SB-204-8

Date Collected: 6/29/2004 | Date Received: 7/2/2004
Date Analyzed: 7/9/2004 | Matrix: SOIL
File ID: VI070917.D | Analytical Run ID: VI070804
Dilution: 1 | Instrument ID: MSVOAI
Analytical Method: 8260 | Associated Blank: VBI0709S2
Sample Wt/Vol: 5.0 Units: g | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 28

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.7	U	6.9	1.7	ug/Kg
Chloromethane	74-87-3	< 0.46	U	6.9	0.46	ug/Kg
Vinyl chloride	75-01-4	< 0.33	U	6.9	0.33	ug/Kg
Bromomethane	74-83-9	< 0.98	U	6.9	0.98	ug/Kg
Chloroethane	75-00-3	< 0.73	U UJ	6.9	0.73	ug/Kg
Trichlorofluoromethane	75-69-4	< 3.4	U	6.9	3.4	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.64	U	6.9	0.64	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.30	U	6.9	0.30	ug/Kg
Acetone	67-64-1	35 ~~15~~	U ~~J~~	35	10	ug/Kg
Carbon disulfide	75-15-0	< 0.14	U	6.9	0.14	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.32	U UJ	6.9	0.32	ug/Kg
Methyl Acetate	79-20-9	< 1.8	U	6.9	1.8	ug/Kg
Methylene Chloride	75-09-2	12	U ~~J~~	6.9	0.94	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.52	U	6.9	0.52	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.49	U	6.9	0.49	ug/Kg
Cyclohexane	110-82-7	< 0.42	U	6.9	0.42	ug/Kg
2-Butanone	78-93-3	< 3.2	U	35	3.2	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.41	U	6.9	0.41	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.49	U	6.9	0.49	ug/Kg
Chloroform	67-66-3	< 0.33	U	6.9	0.33	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.38	U	6.9	0.38	ug/Kg
Methylcyclohexane	108-87-2	< 0.49	U	6.9	0.49	ug/Kg
Benzene	71-43-2	< 0.28	U UJ	6.9	0.28	ug/Kg
1,2-Dichloroethane	107-06-2	< 4.3	U	6.9	4.3	ug/Kg
Trichloroethene	79-01-6	< 0.44	U	6.9	0.44	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.47	U	6.9	0.47	ug/Kg
Bromodichloromethane	75-27-4	< 0.46	U	6.9	0.46	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 3.3	U	35	3.3	ug/Kg
Toluene	108-88-3	< 0.36	U	6.9	0.36	ug/Kg
cis-1,3-Dichloropropene	10061-02-6	< 0.36	U	6.9	0.36	ug/Kg
trans-1,3-Dichloropropene	10061-01-5	< 0.27	U	6.9	0.27	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 0.70	U	6.9	0.70	ug/Kg
2-Hexanone	591-78-6	< 4.4	U	35	4.4	ug/Kg

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Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-14	Client ID:	SB-204-8
Date Collected:	6/29/2004	Date Received:	7/2/2004
Date Analyzed:	7/9/2004	Matrix:	SOIL
File ID:	VI070917.D	Analytical Run ID:	VI070804
Dilution:	1	Instrument ID:	MSVOAI
Analytical Method:	8260	Associated Blank:	VBI0709S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	28

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.58	U	6.9	0.58	ug/Kg
Tetrachloroethene	127-18-4	< 0.88	U	6.9	0.88	ug/Kg
Chlorobenzene	108-90-7	< 0.49	U	6.9	0.49	ug/Kg
Ethyl Benzene	100-41-4	< 0.35	U	6.9	0.35	ug/Kg
m/p-Xylenes	136777-61-2	< 0.71	U	6.9	0.71	ug/Kg
o-Xylene	95-47-6	< 0.60	U	6.9	0.60	ug/Kg
Styr	100-42-5	< 0.43	U	6.9	0.43	ug/Kg
Bromoform	75-25-2	< 0.42	U	6.9	0.42	ug/Kg
Isopropylbenzene	98-82-8	< 0.51	U	6.9	0.51	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.73	U	6.9	0.73	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.29	U	6.9	0.29	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.49	U	6.9	0.49	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.57	U	6.9	0.57	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.94	U	6.9	0.94	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.35	U	6.9	0.35	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	58.79	118 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	84.71	169 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	31.67	63 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	10.27	21 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	226964	3.86			
1,4-Difluorobenzene	540-36-3	434038	4.32			
Chlorobenzene-d5	3114-55-4	158087	7.40			
1,4-Dichlorobenzene-d4	3855-82-1	28102	9.67			

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Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-14RE	Client ID:	SB-204-8RE
Date Collected:	6/29/2004	Date Received:	7/2/2004
Date Analyzed:	7/13/2004	Matrix:	SOIL
File ID:	VK071326.D	Analytical Run ID:	VK071304
Dilution:	1	Instrument ID:	MSVOAK
Analytical Method:	8260	Associated Blank:	VBK0713S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	28

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.7	U	6.9	1.7	ug/Kg
Chloromethane	74-87-3	< 0.46	U	6.9	0.46	ug/Kg
Vinyl chloride	75-01-4	< 0.33	U	6.9	0.33	ug/Kg
Bromomethane	74-83-9	< 0.98	U	6.9	0.98	ug/Kg
Chloroethane	75-00-3	< 0.73	U	6.9	0.73	ug/Kg
Tri ofluoromethane	75-69-4	< 3.4	U	6.9	3.4	ug/Kg
1,1,2- richlorotrifluoroethane	76-13-1	< 0.64	U	6.9	0.64	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.30	U	6.9	0.30	ug/Kg
Acetone	67-64-1	< 10	U	35	10	ug/Kg
Carbon disulfide	75-15-0	< 0.14	U	6.9	0.14	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.32	U	6.9	0.32	ug/Kg
Methyl Acetate	79-20-9	< 1.8	U	6.9	1.8	ug/Kg
Methylene Chloride	75-09-2	22	B	6.9	0.94	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.52	U	6.9	0.52	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.49	U	6.9	0.49	ug/Kg
Cyclohexane	110-82-7	< 0.42	U	6.9	0.42	ug/Kg
2-Butanone	78-93-3	< 3.2	U	35	3.2	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.41	U	6.9	0.41	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.49	U	6.9	0.49	ug/Kg
Chloroform	67-66-3	< 0.33	U	6.9	0.33	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.38	U	6.9	0.38	ug/Kg
Methylcyclohexane	108-87-2	< 0.49	U	6.9	0.49	ug/Kg
Benzene	71-43-2	< 0.28	U	6.9	0.28	ug/Kg
1,2-Dichloroethane	107-06-2	< 4.3	U	6.9	4.3	ug/Kg
Trichloroethene	79-01-6	< 0.44	U	6.9	0.44	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.47	U	6.9	0.47	ug/Kg
Bro ichloromethane	75-27-4	< 0.46	U	6.9	0.46	ug/Kg
4-M yl-2-Pentanone	108-10-1	< 3.3	U	35	3.3	ug/Kg
Toluene	108-88-3	< 0.36	U	6.9	0.36	ug/Kg
-1,3-Dichloropropene	10061-02-6	< 0.36	U	6.9	0.36	ug/Kg
cis-1,3-Dichloropropene	10061-01-5	< 0.27	U	6.9	0.27	ug/Kg
,1,2-Trichloroethane	79-00-5	< 0.70	U	6.9	0.70	ug/Kg
2-Hexanone	591-78-6	< 4.4	U	35	4.4	ug/Kg

SEE initial analysis

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-14RE	**Client ID:**	SB-204-8RE
Date Collected:	6/29/2004	**Date Received:**	7/2/2004
Date Analyzed:	7/13/2004	**Matrix:**	SOIL
File ID:	VK071326.D	**Analytical Run ID:**	VK071304
Dilution:	1	**Instrument ID:**	MSVOAK
Analytical Method:	8260	**Associated Blank:**	VBK0713S2
Sample Wt/Vol:	5.0 **Units:** g	**Soil Extract Vol:**	
Soil Aliquot Vol:		**% Moisture:**	28

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.58	U	6.9	0.58	ug/Kg
Tetrachloroethene	127-18-4	< 0.88	U	6.9	0.88	ug/Kg
Chlorobenzene	108-90-7	< 0.49	U	6.9	0.49	ug/Kg
Ethyl Benzene	100-41-4	< 0.35	U	6.9	0.35	ug/Kg
m/p-Xylenes	136777-61-2	< 0.71	U	6.9	0.71	ug/Kg
o-Xylene	95-47-6	< 0.60	U	6.9	0.60	ug/Kg
Styrene	100-42-5	< 0.43	U	6.9	0.43	ug/Kg
Bromoform	75-25-2	< 0.42	U	6.9	0.42	ug/Kg
Isopropylbenzene	98-82-8	< 0.51	U	6.9	0.51	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.73	U	6.9	0.73	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.29	U	6.9	0.29	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.49	U	6.9	0.49	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.57	U	6.9	0.57	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.94	U	6.9	0.94	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.35	U	6.9	0.35	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	49.71	99 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	81.15	162 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	35.58	71 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	4.25	8 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	64472	4.23			
1,4-Difluorobenzene	540-36-3	116605	4.85			
Chlorobenzene-d5	3114-55-4	54172	7.39			
1,4-Dichlorobenzene-d4	3855-82-1	6989	8.96			

SEC initial analysis

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Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-15	Client ID:	SB-244-8
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/13/2004	Matrix:	SOIL
File ID:	VK071327.D	Analytical Run ID:	VK071304
Dilution:	1	Instrument ID:	MSVOAK
Analytical Method:	8260	Associated Blank:	VBK0713S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	16

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.5	U	6.0	1.5	ug/Kg
Chloromethane	74-87-3	< 0.39	U	6.0	0.39	ug/Kg
Vinyl chloride	75-01-4	< 0.28	U	6.0	0.28	ug/Kg
Bromomethane	74-83-9	< 0.84	U	6.0	0.84	ug/Kg
Chloroethane	75-00-3	< 0.62	U	6.0	0.62	ug/Kg
Trichlorofluoromethane	75-69-4	< 2.9	U	6.0	2.9	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.55	U	6.0	0.55	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.26	U	6.0	0.26	ug/Kg
Acetone	67-64-1	89	U	30	8.9	ug/Kg
Carbon disulfide	75-15-0	36	J	6.0	0.12	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.27	U	6.0	0.27	ug/Kg
Methyl Acetate	79-20-9	< 1.5	U	6.0	1.5	ug/Kg
Methylene Chloride	75-09-2	6.0 ~~4.5~~	U ~~JB~~ J	6.0	0.81	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.44	U	6.0	0.44	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.42	U	6.0	0.42	ug/Kg
Cyclohexane	110-82-7	< 0.36	U	6.0	0.36	ug/Kg
2-Butanone	78-93-3	< 2.7	U	30	2.7	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.35	U	6.0	0.35	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.42	U	6.0	0.42	ug/Kg
Chloroform	67-66-3	< 0.28	U	6.0	0.28	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.32	U	6.0	0.32	ug/Kg
Methylcyclohexane	108-87-2	< 0.42	U	6.0	0.42	ug/Kg
Benzene	71-43-2	< 0.24	U	6.0	0.24	ug/Kg
1,2-Dichloroethane	107-06-2	< 3.7	U	6.0	3.7	ug/Kg
Trichloroethene	79-01-6	< 0.38	U	6.0	0.38	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.40	U	6.0	0.40	ug/Kg
Bromodichloromethane	75-27-4	< 0.40	U	6.0	0.40	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 2.9	U	30	2.9	ug/Kg
Toluene	108-88-3	< 0.31	U	6.0	0.31	ug/Kg
cis-1,3-Dichloropropene	10061-02-6	< 0.30	U	6.0	0.30	ug/Kg
trans-1,3-Dichloropropene	10061-01-5	< 0.23	U	6.0	0.23	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 0.60	U	6.0	0.60	ug/Kg
2-Hexanone	591-78-6	< 3.8	U	30	3.8	ug/Kg

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-15	**Client ID:**	SB-244-8
Date Collected:	6/30/2004	**Date Received:**	7/2/2004
Date Analyzed:	7/13/2004	**Matrix:**	SOIL
File ID:	VK071327.D	**Analytical Run ID:**	VK071304
Dilution:	1	**Instrument ID:**	MSVOAK
Analytical Method:	8260	**Associated Blank:**	VBK0713S2
Sample Wt/Vol:	5.0 **Units:** g	**Soil Extract Vol:**	
Soil Aliquot Vol:		**% Moisture:**	16

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.50	U	6.0	0.50	ug/Kg
Tetrachloroethene	127-18-4	< 0.76	U	6.0	0.76	ug/Kg
Chlorobenzene	108-90-7	< 0.42	U	6.0	0.42	ug/Kg
Ethyl Benzene	100-41-4	< 0.30	U	6.0	0.30	ug/Kg
m/p-Xylenes	136777-61-2	< 0.61	U	6.0	0.61	ug/Kg
o-Xylene	95-47-6	< 0.51	U	6.0	0.51	ug/Kg
Styr	100-42-5	< 0.37	U	6.0	0.37	ug/Kg
Bro...form	75-25-2	< 0.36	U	6.0	0.36	ug/Kg
Isopropylbenzene	98-82-8	< 0.44	U	6.0	0.44	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.63	U	6.0	0.63	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.25	U	6.0	0.25	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.42	U	6.0	0.42	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.49	U	6.0	0.49	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.81	U	6.0	0.81	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.30	U	6.0	0.30	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	37.68	75 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	49.94	100 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	44.13	88 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	51.04	102 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	121617	4.22			
1,4-Difluorobenzene	540-36-3	213623	4.84			
Chlorobenzene-d5	3114-55-4	144660	7.34			
1,4-Dichlorobenzene-d4	3855-82-1	77970	8.76			

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Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-16 Client ID: SB-264-8

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/9/2004 Matrix: SOIL
File ID: VI070919.D Analytical Run ID: VI070804
Dilution: 1 Instrument ID: MSVOAI
Analytical Method: 8260 Associated Blank: VBI0709S2
Sample Wt/Vol: 5.0 Units: g Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 24

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.6	U	6.6	1.6	ug/Kg
Chloromethane	74-87-3	< 0.44	U	6.6	0.44	ug/Kg
Vinyl chloride	75-01-4	< 0.31	U	6.6	0.31	ug/Kg
Bromomethane	74-83-9	< 0.93	U	6.6	0.93	ug/Kg
Chloroethane	75-00-3	< 0.69	U	6.6	0.69	ug/Kg
Trichlorofluoromethane	75-69-4	< 3.2	U	6.6	3.2	ug/Kg
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.60	U	6.6	0.60	ug/Kg
1,1-Dichloroethene	75-35-4	< 0.28	U UJ	6.6	0.28	ug/Kg
Acetone	67-64-1	< 9.8	U	33	9.8	ug/Kg
Carbon disulfide	75-15-0	< 0.13	U	6.6	0.13	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.30	U	6.6	0.30	ug/Kg
Methyl Acetate	79-20-9	< 1.7	U	6.6	1.7	ug/Kg
Methylene Chloride	75-09-2	6.6 ~~1.5~~	U ~~J~~	6.6	0.89	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 0.49	U	6.6	0.49	ug/Kg
1,1-Dichloroethane	75-34-3	< 0.46	U	6.6	0.46	ug/Kg
Cyclohexane	110-82-7	< 0.40	U	6.6	0.40	ug/Kg
2-Butanone	78-93-3	< 3.0	U	33	3.0	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.39	U	6.6	0.39	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 0.46	U	6.6	0.46	ug/Kg
Chloroform	67-66-3	< 0.31	U	6.6	0.31	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 0.36	U	6.6	0.36	ug/Kg
Methylcyclohexane	108-87-2	< 0.47	U	6.6	0.47	ug/Kg
Benzene	71-43-2	< 0.27	U UJ	6.6	0.27	ug/Kg
1,2-Dichloroethane	107-06-2	< 4.1	U	6.6	4.1	ug/Kg
Trichloroethene	79-01-6	< 0.42	U	6.6	0.42	ug/Kg
1,2-Dichloropropane	78-87-5	< 0.44	U	6.6	0.44	ug/Kg
Bromodichloromethane	75-27-4	< 0.44	U	6.6	0.44	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 3.2	U	33	3.2	ug/Kg
Toluene	108-88-3	< 0.34	U	6.6	0.34	ug/Kg
cis-1,3-Dichloropropene	10061-02-6	< 0.34	U	6.6	0.34	ug/Kg
trans-1,3-Dichloropropene	10061-01-5	< 0.26	U	6.6	0.26	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 0.67	U	6.6	0.67	ug/Kg
2-Hexanone	591-78-6	< 4.2	U	33	4.2	ug/Kg

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Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-16 | Client ID: SB-264-8

Date Collected: 6/30/2004 | Date Received: 7/2/2004
Date Analyzed: 7/9/2004 | Matrix: SOIL
File ID: VI070919.D | Analytical Run ID: VI070804
Dilution: 1 | Instrument ID: MSVOAI
Analytical Method: 8260 | Associated Blank: VBI0709S2
Sample Wt/Vol: 5.0 Units: g | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 24

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.55	U	6.6	0.55	ug/Kg
Tetrachloroethene	127-18-4	< 0.84	U	6.6	0.84	ug/Kg
Chlorobenzene	108-90-7	< 0.46	U	6.6	0.46	ug/Kg
Ethyl Benzene	100-41-4	< 0.33	U	6.6	0.33	ug/Kg
m/p-Xylenes	136777-61-2	< 0.68	U	6.6	0.68	ug/Kg
o-Xylene	95-47-6	< 0.57	U	6.6	0.57	ug/Kg
Sty	100-42-5	< 0.41	U	6.6	0.41	ug/Kg
Bromoform	75-25-2	< 0.39	U	6.6	0.39	ug/Kg
Isopropylbenzene	98-82-8	< 0.49	U	6.6	0.49	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.70	U	6.6	0.70	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.28	U	6.6	0.28	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.46	U	6.6	0.46	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.54	U	6.6	0.54	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.89	U	6.6	0.89	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.33	U	6.6	0.33	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	34.43	69 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	49.42	99 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	43.44	87 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	33.44	67 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	605472	3.86			
1,4-Difluorobenzene	540-36-3	1015711	4.32			
Chlorobenzene-d5	3114-55-4	824925	7.40			
1,4-Dichlorobenzene-d4	3855-82-1	252593	9.67			

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Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-16RE	Client ID:	SB-264-8RE
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/13/2004	Matrix:	SOIL
File ID:	VK071328.D	Analytical Run ID:	VK071304
Dilution:	1	Instrument ID:	MSVOAK
Analytical Method:	8260	Associated Blank:	VBK0713S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	24

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1.6	U	6.6	1.6	ug/Kg
Chloromethane	74-87-3	< 0.44	U	6.6	0.44	ug/Kg
Vinyl chloride	75-01-4	< 0.31	U	6.6	0.31	ug/Kg
Bromomethane	74-83-9	< 0.93	U	6.6	0.93	ug/Kg
Chloroethane	75-00-3	< 0.69	U	6.6	0.69	ug/Kg
Tri ofluoromethane	75-69-4	< 3.2	U	6.6	3.2	ug/Kg
,1,2-Trichlorotrifluoroethane	76-13-1	< 0.60	U	6.6	0.60	ug/Kg
,1-Dichloroethene	75-35-4	< 0.28	U	6.6	0.28	ug/Kg
Acetone	67-64-1	< 9.8	U	33	9.8	ug/Kg
Carbon disulfide	75-15-0	< 0.13	U	6.6	0.13	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 0.30	U	6.6	0.30	ug/Kg
Methyl Acetate	79-20-9	< 1.7	U	6.6	1.7	ug/Kg
Methylene Chloride	75-09-2	6.8	B	6.6	0.89	ug/Kg
rans-1,2-Dichloroethene	156-60-5	< 0.49	U	6.6	0.49	ug/Kg
,1-Dichloroethane	75-34-3	< 0.46	U	6.6	0.46	ug/Kg
Cyclohexane	110-82-7	< 0.40	U	6.6	0.40	ug/Kg
-Butanone	78-93-3	< 3.0	U	33	3.0	ug/Kg
Carbon Tetrachloride	56-23-5	< 0.39	U	6.6	0.39	ug/Kg
is-1,2-Dichloroethene	156-59-2	< 0.46	U	6.6	0.46	ug/Kg
Chloroform	67-66-3	< 0.31	U	6.6	0.31	ug/Kg
,1,1-Trichloroethane	71-55-6	< 0.36	U	6.6	0.36	ug/Kg
Methylcyclohexane	108-87-2	< 0.47	U	6.6	0.47	ug/Kg
Benzene	71-43-2	< 0.27	U	6.6	0.27	ug/Kg
,2-Dichloroethane	107-06-2	< 4.1	U	6.6	4.1	ug/Kg
Trichloroethene	79-01-6	< 0.42	U	6.6	0.42	ug/Kg
,2-Dichloropropane	78-87-5	< 0.44	U	6.6	0.44	ug/Kg
ro ichloromethane	75-27-4	< 0.44	U	6.6	0.44	ug/Kg
-Me yl-2-Pentanone	108-10-1	< 3.2	U	33	3.2	ug/Kg
oluene	108-88-3	< 0.34	U	6.6	0.34	ug/Kg
1,3-Dichloropropene	10061-02-6	< 0.34	U	6.6	0.34	ug/Kg
s-1,3-Dichloropropene	10061-01-5	< 0.26	U	6.6	0.26	ug/Kg
1,2-Trichloroethane	79-00-5	< 0.67	U	6.6	0.67	ug/Kg
Hexanone	591-78-6	< 4.2	U	33	4.2	ug/Kg

SC initial / analysis

Chemtech

Volatiles
SW-846

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-16RE	Client ID:	SB-264-8RE
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/13/2004	Matrix:	SOIL
File ID:	VK071328.D	Analytical Run ID:	VK071304
Dilution:	1	Instrument ID:	MSVOAK
Analytical Method:	8260	Associated Blank:	VBK0713S2
Sample Wt/Vol:	5.0 Units: g	Soil Extract Vol:	
Soil Aliquot Vol:		% Moisture:	24

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.55	U	6.6	0.55	ug/Kg
Tetrachloroethene	127-18-4	< 0.84	U	6.6	0.84	ug/Kg
Chlorobenzene	108-90-7	< 0.46	U	6.6	0.46	ug/Kg
Ethyl Benzene	100-41-4	< 0.33	U	6.6	0.33	ug/Kg
m/p-Xylenes	136777-61-2	< 0.68	U	6.6	0.68	ug/Kg
o-Xylene	95-47-6	< 0.57	U	6.6	0.57	ug/Kg
Sty	100-42-5	< 0.41	U	6.6	0.41	ug/Kg
Bromoform	75-25-2	< 0.39	U	6.6	0.39	ug/Kg
Isopropylbenzene	98-82-8	< 0.49	U	6.6	0.49	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 0.70	U	6.6	0.70	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 0.28	U	6.6	0.28	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 0.46	U	6.6	0.46	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 0.54	U	6.6	0.54	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.89	U	6.6	0.89	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 0.33	U	6.6	0.33	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	31.32	63 %	75 - 125		SPK: 50
Dibromofluoromethane	1868-53-7	46.23	92 %	75 - 125		SPK: 50
Toluene-d8	2037-26-5	43.1	86 %	75 - 125		SPK: 50
4-Bromofluorobenzene	460-00-4	39.35	79 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	155707	4.22			
1,4-Difluorobenzene	540-36-3	281848	4.84			
Chlorobenzene-d5	3114-55-4	228835	7.34			
1,4-Dichlorobenzene-d4	3855-82-1	66890	8.78			

see initial analysis

Surrogate Summary
SW-846

SDG No.: S3409
Client: Chazen Companies

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
BSK0713S2	VLCS01	1,2-Dichloroethane-d4	50	40.85	82		75.00	125.00
		Dibromofluoromethane	50	46.15	92		75.00	125.00
		Toluene-d8	50	49.75	100		75.00	125.00
		4-Bromofluorobenzene	50	52.71	105		75.00	125.00
S3409-02	SB-314-8	1,2-Dichloroethane-d4	50	38.96	78		75.00	125.00
		Dibromofluoromethane	50	46.66	93		75.00	125.00
		Toluene-d8	50	45.52	91		75.00	125.00
		4-Bromofluorobenzene	50	52.35	105		75.00	125.00
S3409-03	SB-314-8DUP	1,2-Dichloroethane-d4	50	69.52	139	*	75.00	125.00
		Dibromofluoromethane	50	42.69	85		75.00	125.00
		Toluene-d8	50	50.28	101		75.00	125.00
		4-Bromofluorobenzene	50	52.7	105		75.00	125.00
S3409-03RE	SB-314-8DUPRE	1,2-Dichloroethane-d4	50	34.48	69	*	75.00	125.00
		Dibromofluoromethane	50	46.48	93		75.00	125.00
		Toluene-d8	50	46.71	93		75.00	125.00
		4-Bromofluorobenzene	50	49.48	99		75.00	125.00
S3409-04	SB-034-8	1,2-Dichloroethane-d4	50	38.95	78		75.00	125.00
		Dibromofluoromethane	50	47.82	96		75.00	125.00
		Toluene-d8	50	46.67	93		75.00	125.00
		4-Bromofluorobenzene	50	41.01	82		75.00	125.00
S3409-05	SB-044-8	1,2-Dichloroethane-d4	50	47.4	95		75.00	125.00
		Dibromofluoromethane	50	46.08	92		75.00	125.00
		Toluene-d8	50	55.69	111		75.00	125.00
		4-Bromofluorobenzene	50	45.25	90		75.00	125.00
S3409-05RE	SB-044-8RE	1,2-Dichloroethane-d4	50	36.7	73	*	75.00	125.00
		Dibromofluoromethane	50	45.92	92		75.00	125.00
		Toluene-d8	50	42.71	85		75.00	125.00
		4-Bromofluorobenzene	50	52.57	105		75.00	125.00
S3409-06	SB-0412-16	1,2-Dichloroethane-d4	50	69.38	139	*	75.00	125.00
		Dibromofluoromethane	50	49.9	100		75.00	125.00
		Toluene-d8	50	53.94	108		75.00	125.00
		4-Bromofluorobenzene	50	45.42	91		75.00	125.00
S3409-06RE	SB-0412-16RE	1,2-Dichloroethane-d4	50	37.74	75		75.00	125.00
		Dibromofluoromethane	50	45.18	90		75.00	125.00
		Toluene-d8	50	41.26	83		75.00	125.00
		4-Bromofluorobenzene	50	32.69	65	*	75.00	125.00
S3409-07	SB-184-8	1,2-Dichloroethane-d4	50	40.42	81		75.00	125.00
		Dibromofluoromethane	50	47.18	94		75.00	125.00
		Toluene-d8	50	44.68	89		75.00	125.00
		4-Bromofluorobenzene	50	51.49	103		75.00	125.00
S3409-08	SB-074-8	1,2-Dichloroethane-d4	50	38.51	77		75.00	125.00
		Dibromofluoromethane	50	47.95	96		75.00	125.00

Surrogate Summary
SW-846

SDG No.: S3409
Client: Chazen Companies

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
S3409-08	SB-074-8	Toluene-d8	50	44.91	90		75.00	125.00
		4-Bromofluorobenzene	50	39	78		75.00	125.00
S3409-09	SB-334-8	1,2-Dichloroethane-d4	50	36.06	72		75.00	125.00
		Dibromofluoromethane	50	50.27	101		75.00	125.00
		Toluene-d8	50	44.02	88		75.00	125.00
		4-Bromofluorobenzene	50	26.23	52	*	75.00	125.00
S3409-09MS	SB-334-8MS	1,2-Dichloroethane-d4	50	37.01	74	*	75.00	125.00
		Dibromofluoromethane	50	43.32	87		75.00	125.00
		Toluene-d8	50	47.31	95		75.00	125.00
		4-Bromofluorobenzene	50	41.65	83		75.00	125.00
S3409-09MSD	SB-334-8MSD	1,2-Dichloroethane-d4	50	36.58	73	*	75.00	125.00
		Dibromofluoromethane	50	45.12	90		75.00	125.00
		Toluene-d8	50	48.71	97		75.00	125.00
		4-Bromofluorobenzene	50	46.89	94		75.00	125.00
S3409-09RE	SB-334-8RE	1,2-Dichloroethane-d4	50	36.31	73	*	75.00	125.00
		Dibromofluoromethane	50	43.84	88		75.00	125.00
		Toluene-d8	50	43.68	87		75.00	125.00
		4-Bromofluorobenzene	50	41.79	84		75.00	125.00
S3409-10	SB-290-4	1,2-Dichloroethane-d4	50	38.08	76		75.00	125.00
		Dibromofluoromethane	50	48.28	97		75.00	125.00
		Toluene-d8	50	47.13	94		75.00	125.00
		4-Bromofluorobenzene	50	45.86	92		75.00	125.00
S3409-11	SB-348-12	1,2-Dichloroethane-d4	50	37.78	76		75.00	125.00
		Dibromofluoromethane	50	46.09	92		75.00	125.00
		Toluene-d8	50	46.03	92		75.00	125.00
		4-Bromofluorobenzene	50	47.54	95		75.00	125.00
S3409-12	SB-348-12DUP	1,2-Dichloroethane-d4	50	41.34	83		75.00	125.00
		Dibromofluoromethane	50	44.09	88		75.00	125.00
		Toluene-d8	50	45.74	91		75.00	125.00
		4-Bromofluorobenzene	50	48.59	97		75.00	125.00
S3409-12RE	SB-348-12DUPRE	1,2-Dichloroethane-d4	50	34.67	69	*	75.00	125.00
		Dibromofluoromethane	50	55.04	110		75.00	125.00
		Toluene-d8	50	41.47	83		75.00	125.00
		4-Bromofluorobenzene	50	61.38	123		75.00	125.00
S3409-13	SB-324-8	1,2-Dichloroethane-d4	50	39.16	78		75.00	125.00
		Dibromofluoromethane	50	50.12	100		75.00	125.00
		Toluene-d8	50	45.88	92		75.00	125.00
		4-Bromofluorobenzene	50	44.87	90		75.00	125.00
S3409-14	SB-204-8	1,2-Dichloroethane-d4	50	58.79	118		75.00	125.00
		Dibromofluoromethane	50	84.71	169	*	75.00	125.00
		Toluene-d8	50	31.67	63	*	75.00	125.00
		4-Bromofluorobenzene	50	10.27	21	*	75.00	125.00

Surrogate Summary
SW-846

SDG No.: S3409
Client: Chazen Companies

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
S3409-14RE	SB-204-8RE	1,2-Dichloroethane-d4	50	49.71	99		75.00	125.00
		Dibromofluoromethane	50	81.15	162	*	75.00	125.00
		Toluene-d8	50	35.58	71	*	75.00	125.00
		4-Bromofluorobenzene	50	4.25	8	*	75.00	125.00
S3409-15	SB-244-8	1,2-Dichloroethane-d4	50	37.68	75		75.00	125.00
		Dibromofluoromethane	50	49.94	100		75.00	125.00
		Toluene-d8	50	44.13	88		75.00	125.00
		4-Bromofluorobenzene	50	51.04	102		75.00	125.00
S3409-16	SB-264-8	1,2-Dichloroethane-d4	50	34.43	69	*	75.00	125.00
		Dibromofluoromethane	50	49.42	99		75.00	125.00
		Toluene-d8	50	43.44	87		75.00	125.00
		4-Bromofluorobenzene	50	33.44	67		75.00	125.00
S3409-16RE	SB-264-8RE	1,2-Dichloroethane-d4	50	31.32	63	*	75.00	125.00
		Dibromofluoromethane	50	46.23	92		75.00	125.00
		Toluene-d8	50	43.1	86		75.00	125.00
		4-Bromofluorobenzene	50	39.35	79		75.00	125.00
VBI0707S1	VBLK01	1,2-Dichloroethane-d4	50	53.39	107		75.00	125.00
		Dibromofluoromethane	50	51.04	102		75.00	125.00
		Toluene-d8	50	53.23	106		75.00	125.00
		4-Bromofluorobenzene	50	51.73	103		75.00	125.00
VBI0709S2	VBLK02	1,2-Dichloroethane-d4	50	40	80		75.00	125.00
		Dibromofluoromethane	50	48.02	96		75.00	125.00
		Toluene-d8	50	45.45	91		75.00	125.00
		4-Bromofluorobenzene	50	44.74	89		75.00	125.00
VBK0713S2	VBLK03	1,2-Dichloroethane-d4	50	43.96	88		75.00	125.00
		Dibromofluoromethane	50	48.22	96		75.00	125.00
		Toluene-d8	50	44.72	89		75.00	125.00
		4-Bromofluorobenzene	50	49.71	99		75.00	125.00
VBK0713S3	VBLK04	1,2-Dichloroethane-d4	50	38.75	78		75.00	125.00
		Dibromofluoromethane	50	47.73	95		75.00	125.00
		Toluene-d8	50	47.32	95		75.00	125.00
		4-Bromofluorobenzene	50	49.32	99		75.00	125.00

Chemtech

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**SB-334-8MS**									
S3409-09MS	1,1-Dichloroethene	65	0.0	49	75		*	82	154	
	Benzene	65	0.0	45	69		*	83	135	
	Trichloroethene	65	0.0	36	55		*	81	129	
	Toluene	65	0.0	41	63		*	79	140	
	Chlorobenzene	65	~~50.0~~ 0.0	40	~~-15~~ 62% 37		*	80	141	
Client Sample ID:	**SB-334-8MSD**									
S3409-09MSD	1,1-Dichloroethene	65	0.0	49	75	0	*	82	154	22
	Benzene	65	0.0	45	69	0	*	83	135	21
	Trichloroethene	65	0.0	41	63	14	*	81	129	24
	Toluene	65	0.0	43	66	5	*	79	140	21
	Chlorobenzene	65	~~50.0~~ 0.0	41	~~-14~~ 63% 33	7	*	80	141	21

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
BSK0713S2	1,1-Dichloroethene	20	18	90			70	130	
	Benzene	20	17	85			70	130	
	Trichloroethene	20	18	90			70	130	
	Toluene	20	15	75			70	130	
	Chlorobenzene	20	17	85			70	130	

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK01

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: VI070703.D Lab Sample ID: VBI0707S1

Date Analyzed: 7/7/2004 Time Analyzed: 15:36

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOAI

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
SB-314-8DUP	S3409-03	VI070721.D	22:54
SB-044-8	S3409-05	VI070725.D	00:30
SB-0412-16	S3409-06	VI070727.D	01:19

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK02

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: VI070904.D Lab Sample ID: VBI0709S2

Date Analyzed: 7/9/2004 Time Analyzed: 11:20

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOAI

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
SB-334-8	S3409-09	VI070913.D	14:58
SB-348-12DUP	S3409-12	VI070914.D	15:23
SB-324-8	S3409-13	VI070916.D	16:12
SB-204-8	S3409-14	VI070917.D	16:36
SB-264-8	S3409-16	VI070919.D	17:24

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK03

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: VK071310.D Lab Sample ID: VBK0713S2

Date Analyzed: 7/13/2004 Time Analyzed: 12:45

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
SB-314-8	S3409-02	VK071312.D	13:36
SB-314-8DUPRE	S3409-03RE	VK071313.D	14:01
SB-044-8RE	S3409-05RE	VK071315.D	14:52
SB-0412-16RE	S3409-06RE	VK071316.D	15:17
SB-184-8	S3409-07	VK071317.D	15:42
SB-074-8	S3409-08	VK071318.D	16:07
SB-334-8RE	S3409-09RE	VK071319.D	16:33
SB-334-8MS	S3409-09MS	VK071320.D	16:59
SB-334-8MSD	S3409-09MSD	VK071321.D	17:24
SB-290-4	S3409-10	VK071322.D	17:49
SB-348-12	S3409-11	VK071323.D	18:15
SB-348-12DUPRE	S3409-12RE	VK071324.D	18:40
SB-204-8RE	S3409-14RE	VK071326.D	19:31
SB-244-8	S3409-15	VK071327.D	19:56
SB-264-8RE	S3409-16RE	VK071328.D	20:21
VLCS01	BSK0713S2	VK071329.D	20:47

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK04

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: VK071332.D Lab Sample ID: VBK0713S3

Date Analyzed: 7/13/2004 Time Analyzed: 22:03

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
SB-034-8	S3409-04	VK071352.D	06:30

COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: VI062903.D BFB Injection Date: 6/29/2004

Instrument ID: MSVOAI BFB Injection Time: 14:52

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	34.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.7
173	Less than 2.0% of mass 174	0.3(0.7 1
174	50.0 - 100.0% of mass 95	50.2
175	5.0 - 9.0% of mass 174	4.3 (8.7 1
176	95.0 - 101.0% of mass 174	50.5 (100.7 1
177	5.0 - 9.0% of mass 176	3.5 (6.8 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD005	5 PPB ICC	VI062904.D	6/29/2004	15:28
VSTD020	20 PPB ICC	VI062905.D	6/29/2004	15:53
VSTD050	50 PPB ICC	VI062906.D	6/29/2004	16:17
VSTD100	100 PPB ICC	VI062907.D	6/29/2004	16:41
VSTD200	200 PPB ICC	VI062908.D	6/29/2004	17:05

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: VI070701.D BFB Injection Date: 7/7/2004

Instrument ID: MSVOAI BFB Injection Time: 14:47

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.7
75	30.0 - 60.0% of mass 95	41.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.7(1.5 1
174	50.0 - 100.0% of mass 95	50.6
175	5.0 - 9.0% of mass 174	2.9 (5.8 1
176	95.0 - 101.0% of mass 174	48.2 (95.3 1
177	5.0 - 9.0% of mass 176	3.5 (7.3 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD050	50 PPB CCC	VI070702.D	7/7/2004	15:12
VBLK01	VBI0707S1	VI070703.D	7/7/2004	15:36
SB-314-8DUP	S3409-03	VI070721.D	7/7/2004	22:54
SB-044-8	S3409-05	VI070725.D	7/8/2004	00:30
SB-0412-16	S3409-06	VI070727.D	7/8/2004	01:19

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: VI070801.D BFB Injection Date: 7/8/2004

Instrument ID: MSVOAI BFB Injection Time: 17:22

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.5
75	30.0 - 60.0% of mass 95	32.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	1.7(0.0 1
174	50.0 - 100.0% of mass 95	51.7
175	5.0 - 9.0% of mass 174	4.3 (8.3 1
176	95.0 - 101.0% of mass 174	52.0 (100.5 1
177	5.0 - 9.0% of mass 176	3.6 (7.0 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD005	5 PPB ICC	VI070803.D	7/8/2004	18:37
VSTD200	200 PPB ICC	VI070804.D	7/8/2004	19:01
VSTD100	100 PPB ICC	VI070805.D	7/8/2004	19:25
VSTD050	50 PPB ICC	VI070806.D	7/8/2004	19:49
VSTD020	20 PPB ICC	VI070807.D	7/8/2004	20:14

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: VI070901.D BFB Injection Date: 7/9/2004

Instrument ID: MSVOAI BFB Injection Time: 09:52

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.6
75	30.0 - 60.0% of mass 95	30.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.0
173	Less than 2.0% of mass 174	0.9(0.0. 1
174	50.0 - 100.0% of mass 95	71.2
175	5.0 - 9.0% of mass 174	4.0 (5.6. 1
176	95.0 - 101.0% of mass 174	67.8 (95.2. 1
177	5.0 - 9.0% of mass 176	4.4 (6.5. 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD050	50 PPB CCC	VI070902.D	7/9/2004	10:16
VBLK02	VBI0709S2	VI070904.D	7/9/2004	11:20
SB-334-8	S3409-09	VI070913.D	7/9/2004	14:58
SB-348-12DUP	S3409-12	VI070914.D	7/9/2004	15:23
SB-324-8	S3409-13	VI070916.D	7/9/2004	16:12
SB-204-8	S3409-14	VI070917.D	7/9/2004	16:36
SB-264-8	S3409-16	VI070919.D	7/9/2004	17:24

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: VK071301.D BFB Injection Date: 7/13/2004

Instrument ID: MSVOAK BFB Injection Time: 08:56

GC Column: DB624 ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.8
75	30.0 - 60.0% of mass 95	40.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	4.0(0.0 1
174	50.0 - 100.0% of mass 95	51.3
175	5.0 - 9.0% of mass 174	4.3 (8.4 1
176	95.0 - 101.0% of mass 174	50.0 (97.3 1
177	5.0 - 9.0% of mass 176	4.2 (8.4 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD005	5 PPB ICC	VK071302.D	7/13/2004	09:21
VSTD020	20 PPB ICC	VK071303.D	7/13/2004	09:47
VSTD050	50 PPB ICC	VK071304.D	7/13/2004	10:12
VSTD100	100 PPB ICC	VK071305.D	7/13/2004	10:38
VSTD200	200 PPB ICC	VK071306.D	7/13/2004	11:03
VBLK03	VBK0713S2	VK071310.D	7/13/2004	12:45
SB-314-8	S3409-02	VK071312.D	7/13/2004	13:36
SB-314-8DUPRE	S3409-03RE	VK071313.D	7/13/2004	14:01
SB-044-8RE	S3409-05RE	VK071315.D	7/13/2004	14:52
SB-0412-16RE	S3409-06RE	VK071316.D	7/13/2004	15:17
SB-184-8	S3409-07	VK071317.D	7/13/2004	15:42
SB-074-8	S3409-08	VK071318.D	7/13/2004	16:07
SB-334-8RE	S3409-09RE	VK071319.D	7/13/2004	16:33
SB-334-8MS	S3409-09MS	VK071320.D	7/13/2004	16:59
SB-334-8MSD	S3409-09MSD	VK071321.D	7/13/2004	17:24
SB-290-4	S3409-10	VK071322.D	7/13/2004	17:49
SB-348-12	S3409-11	VK071323.D	7/13/2004	18:15
SB-348-12DUPRE	S3409-12RE	VK071324.D	7/13/2004	18:40
SB-204-8RE	S3409-14RE	VK071326.D	7/13/2004	19:31
SB-244-8	S3409-15	VK071327.D	7/13/2004	19:56
SB-264-8RE	S3409-16RE	VK071328.D	7/13/2004	20:21

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: VK071301.D BFB Injection Date: 7/13/2004

Instrument ID: MSVOAK BFB Injection Time: 08:56

GC Column: DB624 ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.8
75	30.0 - 60.0% of mass 95	40.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	4.0(0.0 1
174	50.0 - 100.0% of mass 95	51.3
175	5.0 - 9.0% of mass 174	4.3 (8.4 1
176	95.0 - 101.0% of mass 174	50.0 (97.3 1
177	5.0 - 9.0% of mass 176	4.2 (8.4 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VLCS01	BSK0713S2	VK071329.D	7/13/2004	20:47

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: VK071330.D BFB Injection Date: 7/13/2004

Instrument ID: MSVOAK BFB Injection Time: 21:12

GC Column: DB624 ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 60.0% of mass 95	42.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	2.8(0.0 1
174	50.0 - 100.0% of mass 95	51.5
175	5.0 - 9.0% of mass 174	4.2 (8.1 1
176	95.0 - 101.0% of mass 174	51.3 (99.6 1
177	5.0 - 9.0% of mass 176	3.2 (6.2 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD050	50 PPB CCC	VK071331.D	7/13/2004	21:38
VBLK04	VBK0713S3	VK071332.D	7/13/2004	22:03
SB-034-8	S3409-04	VK071352.D	7/14/2004	06:30

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG No.: S3409

Lab File ID: VI070702.D Date Analyzed: 7/7/2004

Instrument ID: MSVOAI Time Analyzed: 15:12

GC Column: RTXVMS ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	414539	3.86	1036045	4.32	1007615	7.40
UPPER LIMIT	829078	4.36	2072090	4.82	2015230	7.90
LOWER LIMIT	207270	3.36	518023	3.82	503808	6.90
SAMPLE NO.						
VBLK01	447279	3.87	1149830	4.32	1104939	7.40
SB-314-8DUP	48090 *	3.86	153592 *	4.33	141263 *	7.40
SB-044-8	7570 *	3.86	17369 *	4.32	16149 *	7.40
SB-0412-16	63979 *	3.86	178545 *	4.32	159169 *	7.40

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No. S3409 SAS No.: S3409 SDG No.: S3409

Lab File ID: VI070702.D Date Analyzed: 7/7/2004

Instrument ID: MSVOAI Time Analyzed: 15:12

GC Column: RTXVMS ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #		RT#				
12 HOUR STD	449502		9.67				
UPPER LIMIT	899004		10.17				
LOWER LIMIT	224751		9.17				
SAMPLE NO.							
VBLK01	425640		9.67				
SB-314-8DUP	50864	*	9.68				
SB-044-8	5217	*	9.67				
SB-0412-16	40143	*	9.67				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG No.: S3409

Lab File ID: VI070902.D Date Analyzed: 7/9/2004

Instrument ID: MSVOAI Time Analyzed: 10:16

GC Column: RTXVMS ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	597473	3.86	1080324	4.32	972583	7.40
UPPER LIMIT	1194946	4.36	2160648	4.82	1945166	7.90
LOWER LIMIT	298737	3.36	540162	3.82	486292	6.90
SAMPLE NO.						
VBLK02	775596	3.86	1331198	4.32	1113926	7.40
SB-334-8	636365	3.86	1055717	4.32	692699	7.40
SB-348-12DUP	170474 *	3.86	301312 *	4.32	281842 *	7.40
SB-324-8	461038	3.86	807889	4.32	738731	7.40
SB-204-8	226964 *	3.86	434038 *	4.32	158087 *	7.40
SB-264-8	605472	3.86	1015711	4.32	824925	7.40

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No. S3409 SAS No.: S3409 SDG No.: S3409

Lab File ID: VI070902.D Date Analyzed: 7/9/2004

Instrument ID: MSVOAI Time Analyzed: 10:16

GC Column: RTXVMS ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT#				
12 HOUR STD	433545	9.67				
UPPER LIMIT	867090	10.17				
LOWER LIMIT	216773	9.17				
SAMPLE NO.						
VBLK02	487858	9.67				
SB-334-8	182956 *	9.67				
SB-348-12DUP	126338 *	9.67				
SB-324-8	320661	9.67				
SB-204-8	28102 *	9.67				
SB-264-8	252593	9.67				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG No.: S3409

Lab File ID: VK071331.D Date Analyzed: 7/13/2004

Instrument ID: MSVOAK Time Analyzed: 21:38

GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	191322	4.21	362273	4.83	306219	7.31
UPPER LIMIT	382644	4.71	724546	5.33	612438	7.81
LOWER LIMIT	95661	3.71	181137	4.33	153110	6.81
SAMPLE NO.						
VBLK04	202098	4.22	372396	4.84	317057	7.33
SB-034-8	198200	4.22	342951	4.84	233532	7.33

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No. S3409 SAS No.: S3409 SDG No.: S3409

Lab File ID: VK071331.D Date Analyzed: 7/13/2004

Instrument ID: MSVOAK Time Analyzed: 21:38

GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT#				
12 HOUR STD	131809	8.74				
UPPER LIMIT	263618	9.24				
LOWER LIMIT	65905	8.24				
SAMPLE NO.						
VBLK04	115804	8.76				
SB-034-8	79195	8.77				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract CHAZ02

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG No.: S3409

Lab File ID: VK071304.D Date Analyzed: 7/13/2004

Instrument ID: MSVOAK Time Analyzed: 10:12

GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	162413	4.20	324046	4.82	274721	7.32
UPPER LIMIT	324826	4.70	648092	5.32	549442	7.82
LOWER LIMIT	81207	3.70	162023	4.32	137361	6.82
SAMPLE NO.						
VBLK03	189915	4.20	373925	4.83	256061	7.32
SB-314-8	157715	4.20	293596	4.83	209029	7.33
SB-314-8DUPRE	143410	4.20	257013	4.83	225796	7.33
SB-044-8RE	75921 *	4.22	134867 *	4.84	127644 *	7.35
SB-0412-16RE	110311	4.22	217740	4.84	164511	7.34
SB-184-8	87921	4.22	167095	4.84	156855	7.34
SB-074-8	162782	4.21	294382	4.83	244698	7.33
SB-334-8RE	175213	4.21	328572	4.83	218186	7.33
SB-334-8MS	183125	4.21	337789	4.83	230832	7.32
SB-334-8MSD	191086	4.21	347786	4.83	257446	7.32
SB-290-4	185461	4.21	334759	4.83	252963	7.33
SB-348-12	190405	4.22	350652	4.84	247145	7.33
SB-348-12DUPRE	37846 *	4.22	56360 *	4.86	60532 *	7.39
SB-204-8RE	64472 *	4.23	116605 *	4.85	54172 *	7.39
SB-244-8	121617	4.22	213623	4.84	144660	7.34
SB-264-8RE	155707	4.22	281848	4.84	228835	7.34
VLCS01	192312	4.21	361517	4.83	295625	7.32

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No. S3409 SAS No.: S3409 SDG No.: S3409

Lab File ID: VK071304.D Date Analyzed: 7/13/2004

Instrument ID: MSVOAK Time Analyzed: 10:12

GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT#				
12 HOUR STD	121149	8.74				
UPPER LIMIT	242298	9.24				
LOWER LIMIT	60575	8.24				
SAMPLE NO.						
VBLK03	122556	8.75				
SB-314-8	93804	8.76				
SB-314-8DUPRE	89216	8.76				
SB-044-8RE	51403 *	8.79				
SB-0412-16RE	41182 *	8.79				
SB-184-8	62407	8.78				
SB-074-8	96774	8.75				
SB-334-8RE	87752	8.76				
SB-334-8MS	74643	8.74				
SB-334-8MSD	90129	8.74				
SB-290-4	102706	8.76				
SB-348-12	111013	8.75				
SB-348-12DUPRE	22640 *	8.84				
SB-204-8RE	6989 *	8.96				
SB-244-8	77970	8.76				
SB-264-8RE	66890	8.78				
VLCS01	130646	8.74				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

DATA USABILITY SUMMARY REPORT

for

THE CHAZEN COMPANIES

20 Gurley Avenue

Troy, NY 12182

FORMER STILLWATER BOILER HOUSE
ID#B-001975-5
SDG: S3409
Sampled 6/28/04 thru 6/30/04

SOIL SAMPLES for SEMIVOLATILE ORGANICS

SB31 4-8 (S3409-02)	SB31 4-8D (S3409-03)
SB03 4-8 (S3409-04)	SB04 4-8 (S3409-05)
SB04 12-16 (S3409-06)	SB18 4-8 (S3409-07)
SB07 4-8 (S3409-08)	SB33 4-8 (S3409-09)
SB29 0-4 (S3409-10)	SB34 8-12 (S3409-11)
SB34 8-12D (S3409-12)	SB32 4-8 (S3409-13)
SB20 4-8 (S3409-14)	SB24 4-8 (S3409-15)
SB26 4-8 (S3409-16)	

DATA ASSESSMENT

A semivolatile organics data package containing analytical results for fifteen soil samples was received from The Chazen Companies on 21Sep04. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Stillwater Boiler House site (ID#B-00197-5), were identified by Chain of Custody documents and traceable through the work of CHEMTECH, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8270C, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 06/2000. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-22, Rev 2, SOP for the Validation of Organic Data Acquired Using SW-846 Method 8270C, June 2001) was used as a technical reference.

The presence of bis(2-ethylhexyl)phthalate in SB04 12-16, SB07 4-8, SB24 4-8 and SB26 4-8, and an Aldol Condensation Product (ACP) in nearly every program sample is assumed to represent a laboratory artifact. The phthalate has been flagged as an estimation. When present, the ACP has been removed from sample reports.

The identifications of phenanthrene in SB03 4-8 and SB33 4-8; naphthalene in SB07 4-8, SB20 4-8 and SB26 4-8; chrysene in SB34 8-12; acenaphthene in SB26 4-8, and benzo(a)anthracene in SB34 8-12 were not conclusive, based on the mass spectra references found in the raw data. Each of these analytes should be considered undetected in the affected samples.

The Tentatively Identified Compounds (TIC) reported from each program sample have been edited to reflect identifications that are supported by the library searches included in the raw data.

CORRECTNESS AND USABILIT

All data reported from this group of samples has been qualified as an estimation because the holding time prior to extraction was grossly violated.

Reported data should be considered technically defensible and completely usable in its present form. Reported concentrations that are felt to provide a usable estimation of the conditions being measured have been flagged "J" and "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence

in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 10/18/04

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved, or are not analyzed within established holding times, may no longer be considered representative. Holding times are calculated from the time of receipt (VTSR). Samples must remain chilled to 4°C from the time of collection. Extractions must begin within 5 days of receipt. Analyses must be completed within 40 days of extraction. Each sample delivery group, containing up to 20 samples, should include a field duplicate, a matrix spike, matrix spike duplicate, and a rinsate blank.

This sample delivery group contained fifteen soil samples. The samples were collected from the Former Stillwater Boiler House site between 28Jun04 and 30Jun04. The entire group of samples was shipped to the laboratory, via FedEx, on 01Jul04. The shipment arrived, intact, the following morning.

It is noted that the laboratory provided no documentation to indicate that the samples were properly chilled at the time of receipt. Although data has not been qualified due to this omission, it should be noted that such errors seriously limit the defensibility of reported data.

With the exception of SB24 4-8 and SB26 4-8, this group of samples was held in the laboratory for 12 days prior to extraction. SB24 4-8 and SB26 4-8 were held for 15 days. Analyses were completed within three days of extraction. All data reported from this group of samples has been qualified as an estimation because the holding time prior to extraction was grossly exceeded.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank. Any sample concentration less than 5 times the level determined in a blank must be qualified. The qualification criteria is extended to ten times the concentration observed in blanks for common laboratory artifacts. These include phthalate esters.

Two method blanks were processed with this group of samples. Both blanks demonstrated acceptable chromatography and were free of targeted analyte contamination. Although not present in the method blanks, bis(2-ehtylhexyl)phthalate was detected in SB04 12-16, SB07 4-8, SB24 4-8 and SB26 4-8. The presence of this phthalate is assumed to represent a laboratory artifact. However, because the phthalate was not present in blanks, it cannot be removed from sample reports. When present, bis(3-ethylhexyl)phthalate concentrations have been flagged as estimations. They should only be considered significant if consistent with site history.

4-Hydroxy-4-methyl-2-pentanone, an Aldol Condensation Product, was reported as a Tentatively Identified Compound (TIC) in both method

blanks and in most program samples. When present, this artifact has been removed from sample reports.

MS TUNING

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of DFTPP was analyzed prior to each analytical sequence and during every 12-hour period of instrument operation. An Instrument Performance Check Form is present for each DFTPP evaluation. The DFTPP tunes associated with this group of samples satisfied the program acceptance criteria.

CALIBRATION

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration standards verify instrument stability.

The initial instrument calibration was performed on 12Jul04. Standards of 20, 50, 80, 120 and 160 ng were included. The calibration curve for each targeted analyte produced the required instrument response at each level of concentration and demonstrated an acceptable degree of linearity.

Calibration verifications were performed on 15Jul04, 17Jul04, 19Jul04, 20Jul04 and 22Jul04, prior to the analysis of samples from this program. When compared to the initial calibration, these checks demonstrated an acceptable level of instrument stability. One exception s noted. A significant shift was noted in the response of bis(2-chloroethyl)ether on 20Jul04 and 22Jul04. In both cases, an acceptable level of response was demonstrated. Although errors might be expected in measurements of bis(2-chloroethyl)ether, it may be assumed this analyte would be detected if present in samples. Because bis(2-chloroethyl)ether was not detected in samples, data has been left unqualified.

SURROGATES

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared. The laboratory's in-house acceptance criteria was applied.

Although some instances did exist were surrogate recoveries did not fall within these limits, in every case, ASP requirements were satisfied.

INTERNAL STANDARDS

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria an acceptable response was reported for each internal standard addition to this group of samples.

MATRIX SPIKES / MATRIX SPIKE DUPLICATES / MATRIX SPIKED BLANKS

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

SB31 4-8 was selected for matrix spiking. Spike recoveries were also reported for additions to a non-program sample. Only the SB31 4-8 MS/MSD was considered. When compared to the ASP acceptance criteria, high recoveries were reported for 2,4-dinitrotoluene (105%,105%), pentachlorophenol (118%,114%) and phenol (95%). Similar recoveries were reported from a spiked blank. Data has not been qualified based on this performance.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Field split duplicates of SB31 4-8 and SB34 8-12 were included in this delivery group. Both samples of SB31 4-8 were free of targeted analytes, as was the duplicate of SB34 4-8. SB34 4-8 contained traces of fluoranthene and pyrene that were below CRDL. These samples demonstrated an acceptable level of analytical precision.

SAMPLE INFORMATION

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples. Analyte identifications that were not conclusively supported by the mass spectra references included in the raw data have been flagged "U". They should be considered undetected. The following samples were affected.

SB03 4-8	phenanthrene
SB07 4-8	naphthalene
SB33 4-8	phenanthrene
SB34 8-12	benzo(a)anthracene, chrysene

SB20 4-8 naphthalene
SB26 4-8 naphthalene, acenaphthene

The Tentatively Identified Compounds (TIC) reported from each sample included an Aldol Condensation Product (ACP). When present, this artifact has been removed from sample reports. The remaining TIC's included several identifications that were not supported by the library searches included in the raw data. Each report has been edited to include appropriate identifications.

SUMMARY OF QUALIFIED DATA

Former Stillwater Boiler House site

Sampled 08Jul04

	HOLD TIME	BLANKS PHTHALATE	BLANK ALDOL	SPECTRA ID PHENANTHRENE	NAPHTHALENE	CHRYSENE
SB31 4-8 (S3409-02)	ALL J/UJ		REMOVE			
SB31 4-8D (S3409-03)	ALL J/UJ		REMOVE			
SB03 4-8 (S3409-04)	ALL J/UJ			950U		
SB04 4-8 (S3409-05)	ALL J/UJ		REMOVE			
SB04 12-16 (S3409-06)	ALL J/UJ	41J	REMOVE			
SB18 4-8 (S3409-07)	ALL J/UJ		REMOVE			
SB07 4-8 (S3409-08)	ALL J/UJ	51J	REMOVE		8.7U	
SB33 4-8 (S3409-09)	ALL J/UJ		REMOVE	9.4U		
SB29 0-4 (S3409-10)	ALL J/UJ					
SB34 8-12 (S3409-11)	ALL J/UJ		REMOVE			12U
SB34 8-12D (S3409-12)	ALL J/UJ		REMOVE			
SB32 4-8 (S3409-13)	ALL J/UJ		REMOVE			
SB20 4-8 (S3409-14)	ALL J/UJ				97U	
SB24 4-8 (S3409-15)	ALL J/UJ	60J				
SB26 4-8 (S3409-16)	ALL J/UJ	44J	REMOVE		9.2U	

SUMMARY OF QUALIFIED DATA

Former Stillwater Boiler House site

Sampled 08Jul04

	SPECTRA ID ACENAPHTHALENE	SPECTRA ID BENZO(A)ANTHRACENE	SPECTRA ID TIC
SB31 4-8 (S3409-02)			EDIT
SB31 4-8D (S3409-03)			EDIT
SB03 4-8 (S3409-04)			EDIT
SB04 4-8 (S3409-05)			EDIT
SB04 12-16 (S3409-06)			EDIT
SB18 4-8 (S3409-07)			EDIT
SB07 4-8 (S3409-08)			EDIT
SB33 4-8 (S3409-09)			EDIT
SB29 0-4 (S3409-10)			EDIT
SB34 8-12 (S3409-11)			EDIT
SB34 8-12D (S3409-12)		5U	EDIT
SB32 4-8 (S3409-13)			EDIT
SB20 4-8 (S3409-14)			EDIT
SB24 4-8 (S3409-15)			EDIT
SB26 4-8 (S3409-16)	9.3U		EDIT

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-02	Client ID:	SB-314-8
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/15/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	BE012664.D
Dilution:	1	Instrument ID:	BNAE
Analytical Method:	8270	Analytical Run ID:	BE071204
Sample Wt/Vol:	15.3	Extract Vol:	500
Injection Vol:	2	% Moisture:	20
Associated Blank:	PB16274B		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 40	U	410	40	ug/Kg
Phenol	108-95-2	< 17	U	410	17	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 20	U	410	20	ug/Kg
2-Chlorophenol	95-57-8	< 18	U	410	18	ug/Kg
2-Methylphenol	95-48-7	< 26	U	410	26	ug/Kg
2,2-oxybis(1-Chloropropane)	108-60-1	< 22	U	410	22	ug/Kg
Acetophenone	98-86-2	< 21	U	410	21	ug/Kg
3+4-Methylphenols	106-44-5	< 19	U	410	19	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 18	U	410	18	ug/Kg
Hexachloroethane	67-72-1	< 19	U	410	19	ug/Kg
Nitrobenzene	98-95-3	< 21	U	410	21	ug/Kg
Isophorone	78-59-1	< 15	U	410	15	ug/Kg
2-Nitrophenol	88-75-5	< 16	U	410	16	ug/Kg
2,4-Dimethylphenol	105-67-9	< 22	U	410	22	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 19	U	410	19	ug/Kg
2,4-Dichlorophenol	120-83-2	< 14	U	410	14	ug/Kg
Naphthalene	91-20-3	< 8.8	U	410	8.8	ug/Kg
4-Chloroaniline	106-47-8	< 150	U	410	150	ug/Kg
Hexachlorobutadiene	87-68-3	< 14	U	410	14	ug/Kg
Caprolactam	105-60-2	< 15	U	410	15	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 12	U	410	12	ug/Kg
2-Methylnaphthalene	91-57-6	< 7.0	U	410	7.0	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 10	U	410	10	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 15	U	410	15	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 27	U	1000	27	ug/Kg
1,1-Biphenyl	92-52-4	< 12	U	410	12	ug/Kg
2-Chloronaphthalene	91-58-7	< 8.5	U	410	8.5	ug/Kg
2-Nitroaniline	88-74-4	< 15	U	1000	15	ug/Kg
Dimethylphthalate	131-11-3	< 9.7	U	410	9.7	ug/Kg
Acenaphthylene	208-96-8	< 12	U	410	12	ug/Kg

Chemtech Consulting Group

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-02	Client ID:	SB-314-8
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/15/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	BE012664.D
Dilution:	1	Instrument ID:	BNAE
Analytical Method:	8270	Analytical Run ID:	BE071204
Sample Wt/Vol:	15.3	Extract Vol:	500
Injection Vol:	2	% Moisture:	20
Associated Blank:	PB16274B		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 17	U	410	17	ug/Kg
3-Nitroaniline	99-09-2	< 66	U	1000	66	ug/Kg
Acenaphthene	83-32-9	< 9.0	U	410	9.0	ug/Kg
2,4-Dinitrophenol	51-28-5	< 18	U	1000	18	ug/Kg
4-Nitrophenol	100-02-7	< 40	U	1000	40	ug/Kg
Dibenzofuran	132-64-9	< 13	U	410	13	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 8.1	U	410	8.1	ug/Kg
Diethylphthalate	84-66-2	< 13	U	410	13	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 10	U	410	10	ug/Kg
Fluorene	86-73-7	< 12	U	410	12	ug/Kg
4-Nitroaniline	100-01-6	< 32	U	1000	32	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 24	U	1000	24	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 10	U	410	10	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 11	U	410	11	ug/Kg
Hexachlorobenzene	118-74-1	< 7.6	U	410	7.6	ug/Kg
Atrazine	1912-24-9	< 12	U	410	12	ug/Kg
Pentachlorophenol	87-86-5	< 13	U	1000	13	ug/Kg
Phenanthrene	85-01-8	< 9.1	U	410	9.1	ug/Kg
Anthracene	120-12-7	< 9.7	U	410	9.7	ug/Kg
Carbazole	86-74-8	< 9.0	U	410	9.0	ug/Kg
Di-n-butylphthalate	84-74-2	< 5.4	U	410	5.4	ug/Kg
Fluoranthene	206-44-0	< 5.6	U	410	5.6	ug/Kg
Pyrene	129-00-0	< 7.2	U	410	7.2	ug/Kg
Butylbenzylphthalate	85-68-7	< 14	U	410	14	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 65	U	410	65	ug/Kg
Benzo(a)anthracene	56-55-3	< 6.1	U	410	6.1	ug/Kg
Chrysene	218-01-9	< 13	U	410	13	ug/Kg
bis(2-Ethylhexyl)phthalate	117-81-7	< 9.3	U	410	9.3	ug/Kg
Di-n-octyl phthalate	117-84-0	< 9.7	U	410	9.7	ug/Kg
Benzo(b)fluoranthene	205-99-2	< 22	U	410	22	ug/Kg

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-02	Client ID:	SB-314-8
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/15/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	BE012664.D
Dilution:	1	Instrument ID:	BNAE
Analytical Method:	8270	Analytical Run ID:	BE071204
Sample Wt/Vol:	15.3	Extract Vol:	500
Injection Vol:	2	% Moisture:	20
Associated Blank:	PB16274B		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 14	U	410	14	ug/Kg
Benzo(a)pyrene	50-32-8	< 7.0	U	410	7.0	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	< 9.8	U	410	9.8	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 12	U	410	12	ug/Kg
Benzo(g,h,i)perylene	191-24-2	< 18	U	410	18	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	234.55	78 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	242.54	81 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	147.71	74 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	144.56	72 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	227.07	76 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	150.45	75 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	252504	3.47			
Naphthalene-d8	1146-65-2	921262	4.25			
Acenaphthene-d10	15067-26-2	527162	5.34			
Phenanthrene-d10	1517-22-2	916380	6.32			
Chrysene-d12	1719-03-5	875227	8.36			
Perylene-d12	1520-96-3	907486	9.95			
TENTATIVE IDENTIFIED COMPOUNDS						
~~ACP~~ Hexadecanoic acid & ~~Hexadecanoic acid~~		~~440~~ 150	~~AB~~ J	~~2.50~~ 6.64		~~ug/Kg~~ R ug/Kg
~~3-Eicosene, (E)~~ unknown	74685339	430	J	8.14		ug/Kg
~~Squalene~~ unknown	7683649	270	J	9.12		ug/Kg

Chemtech Consulting Group

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-03 Client ID: SB-314-8DUP

Date Collected: 6/30/2004
Date Analyzed: 7/15/2004
Date Extracted: 7/14/2004
Dilution: 1
Analytical Method: 8270
Sample Wt/Vol: 15.1
Injection Vol: 2
Associated Blank: PB16274B

Date Received: 7/2/2004
Matrix: SOIL
File ID: BE012659.D
Instrument ID: BNAE
Analytical Run ID: BE071204
Extract Vol: 500
% Moisture: 24

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 42	U	430	42	ug/Kg
Phenol	108-95-2	< 18	U	430	18	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 21	U	430	21	ug/Kg
2-Chlorophenol	95-57-8	< 19	U	430	19	ug/Kg
Methylphenol	95-48-7	< 27	U	430	27	ug/Kg
2,2-oxybis(1-Chloropropane)	108-60-1	< 23	U	430	23	ug/Kg
Acetophenone	98-86-2	< 23	U	430	23	ug/Kg
3+4-Methylphenols	106-44-5	< 20	U	430	20	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 19	U	430	19	ug/Kg
Hexachloroethane	67-72-1	< 21	U	430	21	ug/Kg
Nitrobenzene	98-95-3	< 22	U	430	22	ug/Kg
Isophorone	78-59-1	< 16	U	430	16	ug/Kg
2-Nitrophenol	88-75-5	< 17	U	430	17	ug/Kg
2,4-Dimethylphenol	105-67-9	< 23	U	430	23	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 20	U	430	20	ug/Kg
2,4-Dichlorophenol	120-83-2	< 15	U	430	15	ug/Kg
Naphthalene	91-20-3	< 9.4	U	430	9.4	ug/Kg
4-Chloroaniline	106-47-8	< 160	U	430	160	ug/Kg
Hexachlorobutadiene	87-68-3	< 15	U	430	15	ug/Kg
Caprolactam	105-60-2	< 16	U	430	16	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 13	U	430	13	ug/Kg
2-Methylnaphthalene	91-57-6	< 7.5	U	430	7.5	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 11	U	430	11	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 16	U	430	16	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 29	U	1100	29	ug/Kg
1,1-Biphenyl	92-52-4	< 13	U	430	13	ug/Kg
Chloronaphthalene	91-58-7	< 9.0	U	430	9.0	ug/Kg
2-Nitroaniline	88-74-4	< 16	U	1100	16	ug/Kg
Dimethylphthalate	131-11-3	< 10	U	430	10	ug/Kg
Acenaphthylene	208-96-8	< 13	U	430	13	ug/Kg

Chemtech Consulting Group

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-03 Client ID: SB-314-8DUP

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012659.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.1 Extract Vol: 500
Injection Vol: 2 % Moisture: 24
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 18	U	430	18	ug/Kg
3-Nitroaniline	99-09-2	< 70	U	1100	70	ug/Kg
Acenaphthene	83-32-9	< 9.6	U	430	9.6	ug/Kg
2,4-Dinitrophenol	51-28-5	< 19	U	1100	19	ug/Kg
Nitrophenol	100-02-7	< 42	U	1100	42	ug/Kg
benzofuran	132-64-9	< 14	U	430	14	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 8.6	U	430	8.6	ug/Kg
Diethylphthalate	84-66-2	< 14	U	430	14	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 11	U	430	11	ug/Kg
Fluorene	86-73-7	< 12	U	430	12	ug/Kg
4-Nitroaniline	100-01-6	< 34	U	1100	34	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 25	U	1100	25	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 11	U	430	11	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 11	U	430	11	ug/Kg
Hexachlorobenzene	118-74-1	< 8.1	U	430	8.1	ug/Kg
Atrazine	1912-24-9	< 13	U	430	13	ug/Kg
Pentachlorophenol	87-86-5	< 13	U	1100	13	ug/Kg
Phenanthrene	85-01-8	< 9.7	U	430	9.7	ug/Kg
Anthracene	120-12-7	< 10	U	430	10	ug/Kg
Carbazole	86-74-8	< 9.6	U	430	9.6	ug/Kg
Di-n-butylphthalate	84-74-2	< 5.8	U	430	5.8	ug/Kg
Fluoranthene	206-44-0	< 6.0	U	430	6.0	ug/Kg
Pyrene	129-00-0	< 7.7	U	430	7.7	ug/Kg
Butylbenzylphthalate	85-68-7	< 15	U	430	15	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 70	U	430	70	ug/Kg
Benzo(a)anthracene	56-55-3	< 6.5	U	430	6.5	ug/Kg
rysene	218-01-9	< 14	U	430	14	ug/Kg
bis(2-Ethylhexyl)phthalate	117-81-7	< 10	U	430	10	ug/Kg
Di-n-octyl phthalate	117-84-0	< 10	U	430	10	ug/Kg
Benzo(b)fluoranthene	205-99-2	< 23	U	430	23	ug/Kg

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-03 Client ID: SB-314-8DUP

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012659.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.1 Extract Vol: 500
Injection Vol: 2 % Moisture: 24
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 15	U	430	15	ug/Kg
Benzo(a)pyrene	50-32-8	< 7.5	U	430	7.5	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	< 10	U	430	10	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 13	U	430	13	ug/Kg
Benzo(g,h,i)perylene	191-24-2	< 19	U	430	19	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	231.6	77 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	241.39	80 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	148.06	74 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	146.31	73 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	227.26	76 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	152.47	76 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	243917	3.47			
Naphthalene-d8	1146-65-2	869437	4.25			
Acenaphthene-d10	15067-26-2	507809	5.34			
Phenanthrene-d10	1517-22-2	878680	6.33			
Chrysene-d12	1719-03-5	831610	8.42			
Perylene-d12	1520-96-3	848418	10.02			
TENTITIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~470~~	~~AB~~	~~2.51~~		~~ug/Kg~~ R
~~5-Eicosene, (E)-~~ unknown	74685306	360	J	8.19		ug/Kg
~~Squalene~~ unknown	7683649	360	J	9.19		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-04 Client ID: SB-034-8

Date Collected: 6/28/2004 Date Received: 7/2/2004
Date Analyzed: 7/16/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012673.D
Dilution: 10 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.1 Extract Vol: 5000
Injection Vol: 2 % Moisture: 24
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 4200	U	43000	4200	ug/Kg
Phenol	108-95-2	< 1800	U	43000	1800	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 2100	U	43000	2100	ug/Kg
2-Chlorophenol	95-57-8	< 1900	U	43000	1900	ug/Kg
2-Methylphenol	95-48-7	< 2700	U	43000	2700	ug/Kg
2,2-oxybis(1-Chloropropane)	108-60-1	< 2300	U	43000	2300	ug/Kg
Acetophenone	98-86-2	< 2300	U	43000	2300	ug/Kg
3+4-Methylphenols	106-44-5	< 2000	U	43000	2000	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 1900	U	43000	1900	ug/Kg
Hexachloroethane	67-72-1	< 2100	U	43000	2100	ug/Kg
Nitrobenzene	98-95-3	< 2200	U	43000	2200	ug/Kg
Isophorone	78-59-1	< 1600	U	43000	1600	ug/Kg
2-Nitrophenol	88-75-5	< 1700	U	43000	1700	ug/Kg
2,4-Dimethylphenol	105-67-9	< 2300	U	43000	2300	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 2000	U	43000	2000	ug/Kg
2,4-Dichlorophenol	120-83-2	< 1500	U	43000	1500	ug/Kg
Naphthalene	91-20-3	< 940	U	43000	940	ug/Kg
4-Chloroaniline	106-47-8	< 16000	U	43000	16000	ug/Kg
Hexachlorobutadiene	87-68-3	< 1500	U	43000	1500	ug/Kg
Caprolactam	105-60-2	< 1600	U	43000	1600	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 1300	U	43000	1300	ug/Kg
2-Methylnaphthalene	91-57-6	< 750	U	43000	750	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 1100	U	43000	1100	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 1600	U	43000	1600	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 2900	U	110000	2900	ug/Kg
1,1-Biphenyl	92-52-4	< 1300	U	43000	1300	ug/Kg
2-Chloronaphthalene	91-58-7	< 900	U	43000	900	ug/Kg
2-Nitroaniline	88-74-4	< 1600	U	110000	1600	ug/Kg
Dimethylphthalate	131-11-3	< 1000	U	43000	1000	ug/Kg
Acenaphthylene	208-96-8	< 1300	U	43000	1300	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-04 | Client ID: SB-034-8

Date Collected: 6/28/2004 | Date Received: 7/2/2004
Date Analyzed: 7/16/2004 | Matrix: SOIL
Date Extracted: 7/14/2004 | File ID: BE012673.D
Dilution: 10 | Instrument ID: BNAE
Analytical Method: 8270 | Analytical Run ID: BE071204
Sample Wt/Vol: 15.1 | Extract Vol: 5000
Injection Vol: 2 | % Moisture: 24
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 1800	U	43000	1800	ug/Kg
3-Nitroaniline	99-09-2	< 7000	U	110000	7000	ug/Kg
Acenaphthene	83-32-9	< 950	U	43000	950	ug/Kg
2,4-Dinitrophenol	51-28-5	< 1900	U	110000	1900	ug/Kg
4-Nitrophenol	100-02-7	< 4200	U	110000	4200	ug/Kg
Dibenzofuran	132-64-9	< 1400	U	43000	1400	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 860	U	43000	860	ug/Kg
Diethylphthalate	84-66-2	< 1400	U	43000	1400	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 1100	U	43000	1100	ug/Kg
Fluorene	86-73-7	< 1200	U	43000	1200	ug/Kg
4-Nitroaniline	100-01-6	< 3400	U	110000	3400	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 2500	U	110000	2500	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 1100	U	43000	1100	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 1100	U	43000	1100	ug/Kg
Hexachlorobenzene	118-74-1	< 810	U	43000	810	ug/Kg
Atrazine	1912-24-9	< 1300	U	43000	1300	ug/Kg
Pentachlorophenol	87-86-5	< 1300	U	110000	1300	ug/Kg
Phenanthrene	85-01-8	~~< 6800~~ 950	J	43000	970	ug/Kg
Anthracene	120-12-7	< 1000	U	43000	1000	ug/Kg
Carbazole	86-74-8	< 950	U	43000	950	ug/Kg
Di-n-butylphthalate	84-74-2	< 580	U	43000	580	ug/Kg
Fluoranthene	206-44-0	7200	J	43000	600	ug/Kg
Pyrene	129-00-0	8300	J	43000	770	ug/Kg
Butylbenzylphthalate	85-68-7	< 1500	U	43000	1500	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 6900	U	43000	6900	ug/Kg
Benzo(a)anthracene	56-55-3	< 650	U	43000	650	ug/Kg
Chrysene	218-01-9	< 1400	U	43000	1400	ug/Kg
bis(2-Ethylhexyl)phthalate	117-81-7	< 990	U	43000	990	ug/Kg
Di-n-octyl phthalate	117-84-0	< 1000	U	43000	1000	ug/Kg
Benzo(b)fluoranthene	205-99-2	< 2300	U	43000	2300	ug/Kg

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-04	Client ID:	SB-034-8
Date Collected:	6/28/2004	Date Received:	7/2/2004
Date Analyzed:	7/16/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	BE012673.D
Dilution:	10	Instrument ID:	BNAE
Analytical Method:	8270	Analytical Run ID:	BE071204
Sample Wt/Vol:	15.1	Extract Vol:	5000
Injection Vol:	2	% Moisture:	24
Associated Blank:	PB16274B		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 1500	U	43000	1500	ug/Kg
Benzo(a)pyrene	50-32-8	< 750	U	43000	750	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	< 1000	U	43000	1000	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 1300	U	43000	1300	ug/Kg
Benzo(g,h,i)perylene	191-24-2	< 1900	U	43000	1900	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	15.7	5 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	17.4	6 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	11.2	6 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	12.9	6 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	15.3	5 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	13.4	7 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	201437	3.48			
Naphthalene-d8	1146-65-2	875667	4.25			
Acenaphthene-d10	15067-26-2	503447	5.34			
Phenanthrene-d10	1517-22-2	894054	6.31			
Chrysene-d12	1719-03-5	900056	8.30			
Perylene-d12	1520-96-3	915785	9.88			
TENTITIVE IDENTIFIED COMPOUNDS						
~~Thiophene~~ unknown	110021	10000	J	2.03		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-05 | Client ID: SB-044-8

Date Collected: 6/28/2004 | Date Received: 7/2/2004
Date Analyzed: 7/15/2004 | Matrix: SOIL
Date Extracted: 7/14/2004 | File ID: BE012661.D
Dilution: 1 | Instrument ID: BNAE
Analytical Method: 8270 | Analytical Run ID: BE071204
Sample Wt/Wol: 15.0 | Extract Vol: 500
Injection Vol: 2 | % Moisture: 21
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 41	U	420	41	ug/Kg
Phenol	108-95-2	< 17	U	420	17	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 21	U	420	21	ug/Kg
2-Chlorophenol	95-57-8	< 18	U	420	18	ug/Kg
Methylphenol	95-48-7	< 26	U	420	26	ug/Kg
2,2-oxybis(1-Chloropropane)	108-60-1	< 23	U	420	23	ug/Kg
Acetophenone	98-86-2	< 22	U	420	22	ug/Kg
3+4-Methylphenols	106-44-5	< 19	U	420	19	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 18	U	420	18	ug/Kg
Hexachloroethane	67-72-1	< 20	U	420	20	ug/Kg
Nitrobenzene	98-95-3	< 21	U	420	21	ug/Kg
Isophorone	78-59-1	< 16	U	420	16	ug/Kg
2-Nitrophenol	88-75-5	< 17	U	420	17	ug/Kg
2,4-Dimethylphenol	105-67-9	< 23	U	420	23	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 19	U	420	19	ug/Kg
2,4-Dichlorophenol	120-83-2	< 15	U	420	15	ug/Kg
Naphthalene	91-20-3	< 9.1	U	420	9.1	ug/Kg
4-Chloroaniline	106-47-8	< 150	U	420	150	ug/Kg
Hexachlorobutadiene	87-68-3	< 15	U	420	15	ug/Kg
Caprolactam	105-60-2	< 15	U	420	15	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 12	U	420	12	ug/Kg
2-Methylnaphthalene	91-57-6	< 7.2	U	420	7.2	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 10	U	420	10	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 15	U	420	15	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 28	U	1000	28	ug/Kg
1,1-Biphenyl	92-52-4	< 12	U	420	12	ug/Kg
2-Chloronaphthalene	91-58-7	< 8.7	U	420	8.7	ug/Kg
2-Nitroaniline	88-74-4	< 15	U	1000	15	ug/Kg
Dimethylphthalate	131-11-3	< 10	U	420	10	ug/Kg
Acenaphthylene	208-96-8	< 13	U	420	13	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-05 | Client ID: SB-044-8

Date Collected: 6/28/2004 | Date Received: 7/2/2004
Date Analyzed: 7/15/2004 | Matrix: SOIL
Date Extracted: 7/14/2004 | File ID: BE012661.D
Dilution: 1 | Instrument ID: BNAE
Analytical Method: 8270 | Analytical Run ID: BE071204
Sample Wt/Vol: 15.0 | Extract Vol: 500
Injection Vol: 2 | % Moisture: 21
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 18	U	420	18	ug/Kg
3-Nitroaniline	99-09-2	< 67	U	1000	67	ug/Kg
Acenaphthene	83-32-9	< 9.2	U	420	9.2	ug/Kg
2,4-Dinitrophenol	51-28-5	< 18	U	1000	18	ug/Kg
4-Nitrophenol	100-02-7	< 41	U	1000	41	ug/Kg
Dibenzofuran	132-64-9	< 14	U	420	14	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 8.3	U	420	8.3	ug/Kg
Diethylphthalate	84-66-2	< 13	U	420	13	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 10	U	420	10	ug/Kg
Fluorene	86-73-7	< 12	U	420	12	ug/Kg
4-Nitroaniline	100-01-6	< 33	U	1000	33	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 24	U	1000	24	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 11	U	420	11	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 11	U	420	11	ug/Kg
Hexachlorobenzene	118-74-1	< 7.8	U	420	7.8	ug/Kg
Atrazine	1912-24-9	< 13	U	420	13	ug/Kg
Pentachlorophenol	87-86-5	< 13	U	1000	13	ug/Kg
Phenanthrene	85-01-8	< 9.3	U	420	9.3	ug/Kg
Anthracene	120-12-7	< 10	U	420	10	ug/Kg
Carbazole	86-74-8	< 9.2	U	420	9.2	ug/Kg
Di-n-butylphthalate	84-74-2	< 5.6	U	420	5.6	ug/Kg
Fluoranthene	206-44-0	< 5.8	U	420	5.8	ug/Kg
Pyrene	129-00-0	< 7.5	U	420	7.5	ug/Kg
Butylbenzylphthalate	85-68-7	< 14	U	420	14	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 67	U	420	67	ug/Kg
Benzo(a)anthracene	56-55-3	< 6.3	U	420	6.3	ug/Kg
Chrysene	218-01-9	< 13	U	420	13	ug/Kg
bis(2-Ethylhexyl)phthalate	117-81-7	< 9.6	U	420	9.6	ug/Kg
Di-n-octyl phthalate	117-84-0	< 10	U	420	10	ug/Kg
Benzo(b)fluoranthene	205-99-2	< 22	U	420	22	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-05 | Client ID: SB-044-8

Date Collected: 6/28/2004 | Date Received: 7/2/2004
Date Analyzed: 7/15/2004 | Matrix: SOIL
Date Extracted: 7/14/2004 | File ID: BE012661.D
Dilution: 1 | Instrument ID: BNAE
Analytical Method: 8270 | Analytical Run ID: BE071204
Sample Wt/Vol: 15.0 | Extract Vol: 500
Injection Vol: 2 | % Moisture: 21
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 14	U	420	14	ug/Kg
Benzo(a)pyrene	50-32-8	< 7.2	U	420	7.2	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	< 10	U	420	10	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 12	U	420	12	ug/Kg
Benzo(g,h,i)perylene	191-24-2	< 18	U	420	18	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	241.24	80 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	250.55	84 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	140.35	70 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	150.88	75 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	238.91	80 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	158.52	79 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	242766	3.47			
Naphthalene-d8	1146-65-2	880384	4.25			
Acenaphthene-d10	15067-26-2	509795	5.34			
Phenanthrene-d10	1517-22-2	886443	6.31			
Chrysene-d12	1719-03-5	835485	8.33			
Perylene-d12	1520-96-3	861742	9.91			
TENTATIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~510~~	~~AB~~	~~2.50~~		~~ug/Kg~~ R
~~1-Octadecanol~~ alcohol	112925	410	J	8.10		ug/Kg
~~Squalene~~ unknown	7683649	430	J	9.08		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-06	Client ID:	SB-0412-16
Date Collected:	6/28/2004	Date Received:	7/2/2004
Date Analyzed:	7/15/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	BE012665.D
Dilution:	1	Instrument ID:	BNAE
Analytical Method:	8270	Analytical Run ID:	BE071204
Sample Wt/Vol:	15.2	Extract Vol:	500
Injection Vol:	2	% Moisture:	18
Associated Blank:	PB16274B		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 39	U	400	39	ug/Kg
Phenol	108-95-2	< 17	U	400	17	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 20	U	400	20	ug/Kg
2-Chlorophenol	95-57-8	< 17	U	400	17	ug/Kg
2-Methylphenol	95-48-7	< 25	U	400	25	ug/Kg
)-oxybis(1-Chloropropane)	108-60-1	< 22	U	400	22	ug/Kg
Acetophenone	98-86-2	< 21	U	400	21	ug/Kg
3+4-Methylphenols	106-44-5	< 18	U	400	18	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 18	U	400	18	ug/Kg
Hexachloroethane	67-72-1	< 19	U	400	19	ug/Kg
Nitrobenzene	98-95-3	< 20	U	400	20	ug/Kg
Isophorone	78-59-1	< 15	U	400	15	ug/Kg
2-Nitrophenol	88-75-5	< 16	U	400	16	ug/Kg
2,4-Dimethylphenol	105-67-9	< 22	U	400	22	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 18	U	400	18	ug/Kg
2,4-Dichlorophenol	120-83-2	< 14	U	400	14	ug/Kg
Naphthalene	91-20-3	< 8.7	U	400	8.7	ug/Kg
4-Chloroaniline	106-47-8	< 150	U	400	150	ug/Kg
Hexachlorobutadiene	87-68-3	< 14	U	400	14	ug/Kg
Caprolactam	105-60-2	< 15	U	400	15	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 12	U	400	12	ug/Kg
2-Methylnaphthalene	91-57-6	< 6.9	U	400	6.9	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 10	U	400	10	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 14	U	400	14	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 26	U	1000	26	ug/Kg
1,1-Biphenyl	92-52-4	< 12	U	400	12	ug/Kg
)hloronaphthalene	91-58-7	< 8.3	U	400	8.3	ug/Kg
2-Nitroaniline	88-74-4	< 14	U	1000	14	ug/Kg
Dimethylphthalate	131-11-3	< 9.5	U	400	9.5	ug/Kg
Acenaphthylene	208-96-8	< 12	U	400	12	ug/Kg

Chemtech Consulting Group

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-06 Client ID: SB-0412-16

Date Collected: 6/28/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012665.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Wol: 15.2 Extract Vol: 500
Injection Vol: 2 % Moisture: 18
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 17	U	400	17	ug/Kg
3-Nitroaniline	99-09-2	< 64	U	1000	64	ug/Kg
Acenaphthene	83-32-9	< 8.8	U	400	8.8	ug/Kg
2,4-Dinitrophenol	51-28-5	< 18	U	1000	18	ug/Kg
4-Nitrophenol	100-02-7	< 39	U	1000	39	ug/Kg
Dibenzofuran	132-64-9	< 13	U	400	13	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 8.0	U	400	8.0	ug/Kg
Diethylphthalate	84-66-2	< 13	U	400	13	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 9.9	U	400	9.9	ug/Kg
Fluorene	86-73-7	< 11	U	400	11	ug/Kg
4-Nitroaniline	100-01-6	< 31	U	1000	31	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 23	U	1000	23	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 10	U	400	10	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 10	U	400	10	ug/Kg
Hexachlorobenzene	118-74-1	< 7.5	U	400	7.5	ug/Kg
Atrazine	1912-24-9	< 12	U	400	12	ug/Kg
Pentachlorophenol	87-86-5	< 12	U	1000	12	ug/Kg
Phenanthrene	85-01-8	< 8.9	U	400	8.9	ug/Kg
Anthracene	120-12-7	< 9.5	U	400	9.5	ug/Kg
Carbazole	86-74-8	< 8.8	U	400	8.8	ug/Kg
Di-n-butylphthalate	84-74-2	< 5.3	U	400	5.3	ug/Kg
Fluoranthene	206-44-0	< 5.6	U	400	5.6	ug/Kg
Pyrene	129-00-0	< 7.1	U	400	7.1	ug/Kg
Butylbenzylphthalate	85-68-7	< 13	U	400	13	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 64	U	400	64	ug/Kg
Benzo(a)anthracene	56-55-3	< 6.0	U	400	6.0	ug/Kg
Chrysene	218-01-9	< 13	U	400	13	ug/Kg
Bis(2-Ethylhexyl)phthalate	117-81-7	41	J	400	9.2	ug/Kg
Di-n-octyl phthalate	117-84-0	< 9.5	U	400	9.5	ug/Kg
Benzo(b)fluoranthene	205-99-2	< 21	U	400	21	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-06 Client ID: SB-0412-16

Date Collected: 6/28/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012665.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.2 Extract Vol: 500
Injection Vol: 2 % Moisture: 18
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 14	U	400	14	ug/Kg
Benzo(a)pyrene	50-32-8	< 6.9	U	400	6.9	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	< 9.7	U	400	9.7	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 12	U	400	12	ug/Kg
Benzo(g,h,i)perylene	191-24-2	< 17	U	400	17	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	238.48	79 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	249.61	83 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	136.1	68 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	148.65	74 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	236.8	79 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	152.21	76 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	235908	3.47			
Naphthalene-d8	1146-65-2	877443	4.25			
Acenaphthene-d10	15067-26-2	489320	5.34			
Phenanthrene-d10	1517-22-2	857754	6.31			
Chrysene-d12	1719-03-5	818572	8.31			
Perylene-d12	1520-96-3	842037	9.88			
TENTITIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~510~~	~~AB~~	~~2.50~~		~~ug/Kg~~ R
~~Cyclotetradecane~~ unknown	295170	310	J	8.09		ug/Kg
~~Psi-,psi- Carotene, 7,7,8,8,11,11,1~~ unknown	502625	220	J	9.05		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-07	Client ID:	SB-184-8
Date Collected:	6/29/2004	Date Received:	7/2/2004
Date Analyzed:	7/15/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	BE012671.D
Dilution:	2	Instrument ID:	BNAE
Analytical Method:	8270	Analytical Run ID:	BE071204
Sample Wt/Vol:	15.1	Extract Vol:	1000
Injection Vol:	2	% Moisture:	15
Associated Blank:	PB16274B		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 150	U	1500	150	ug/Kg
Phenol	108-95-2	< 64	U	1500	64	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 76	U	1500	76	ug/Kg
2-Chlorophenol	95-57-8	< 67	U	1500	67	ug/Kg
2-Methylphenol	95-48-7	< 97	U	1500	97	ug/Kg
)-oxybis(1-Chloropropane)	108-60-1	< 83	U	1500	83	ug/Kg
Acetophenone	98-86-2	< 81	U	1500	81	ug/Kg
3+4-Methylphenols	106-44-5	< 71	U	1500	71	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 68	U	1500	68	ug/Kg
Hexachloroethane	67-72-1	< 74	U	1500	74	ug/Kg
Nitrobenzene	98-95-3	< 78	U	1500	78	ug/Kg
Isophorone	78-59-1	< 57	U	1500	57	ug/Kg
2-Nitrophenol	88-75-5	< 62	U	1500	62	ug/Kg
2,4-Dimethylphenol	105-67-9	< 83	U	1500	83	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 70	U	1500	70	ug/Kg
2,4-Dichlorophenol	120-83-2	< 54	U	1500	54	ug/Kg
Naphthalene	91-20-3	< 34	U	1500	34	ug/Kg
4-Chloroaniline	106-47-8	< 570	U	1500	570	ug/Kg
Hexachlorobutadiene	87-68-3	< 54	U	1500	54	ug/Kg
Caprolactam	105-60-2	< 57	U	1500	57	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 46	U	1500	46	ug/Kg
2-Methylnaphthalene	91-57-6	< 27	U	1500	27	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 39	U	1500	39	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 56	U	1500	56	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 100	U	3900	100	ug/Kg
1,1-Biphenyl	92-52-4	< 46	U	1500	46	ug/Kg
)hloronaphthalene	91-58-7	< 32	U	1500	32	ug/Kg
2-Nitroaniline	88-74-4	< 56	U	3900	56	ug/Kg
Dimethylphthalate	131-11-3	< 37	U	1500	37	ug/Kg
Acenaphthylene	208-96-8	< 46	U	1500	46	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-07	Client ID:	SB-184-8
Date Collected:	6/29/2004	Date Received:	7/2/2004
Date Analyzed:	7/15/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	BE012671.D
Dilution:	2	Instrument ID:	BNAE
Analytical Method:	8270	Analytical Run ID:	BE071204
Sample Wt/Vol:	15.1	Extract Vol:	1000
Injection Vol:	2	% Moisture:	15
Associated Blank:	PB16274B		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 66	U	1500	66	ug/Kg
3-Nitroaniline	99-09-2	< 250	U	3900	250	ug/Kg
Acenaphthene	83-32-9	< 34	U	1500	34	ug/Kg
2,4-Dinitrophenol	51-28-5	< 68	U	3900	68	ug/Kg
4-Nitrophenol	100-02-7	< 150	U	3900	150	ug/Kg
benzofuran	132-64-9	< 51	U	1500	51	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 31	U	1500	31	ug/Kg
Diethylphthalate	84-66-2	< 48	U	1500	48	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 38	U	1500	38	ug/Kg
Fluorene	86-73-7	< 44	U	1500	44	ug/Kg
4-Nitroaniline	100-01-6	< 120	U	3900	120	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 90	U	3900	90	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 39	U	1500	39	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 41	U	1500	41	ug/Kg
Hexachlorobenzene	118-74-1	< 29	U	1500	29	ug/Kg
Atrazine	1912-24-9	< 47	U	1500	47	ug/Kg
Pentachlorophenol	87-86-5	< 48	U	3900	48	ug/Kg
Phenanthrene	85-01-8	< 35	U	1500	35	ug/Kg
Anthracene	120-12-7	< 37	U	1500	37	ug/Kg
Carbazole	86-74-8	< 34	U	1500	34	ug/Kg
Di-n-butylphthalate	84-74-2	< 21	U	1500	21	ug/Kg
Fluoranthene	206-44-0	< 21	U	1500	21	ug/Kg
Pyrene	129-00-0	< 28	U	1500	28	ug/Kg
Butylbenzylphthalate	85-68-7	< 52	U	1500	52	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 250	U	1500	250	ug/Kg
Benzo(a)anthracene	56-55-3	< 23	U	1500	23	ug/Kg
ysene	218-01-9	< 49	U	1500	49	ug/Kg
bis(2-Ethylhexyl)phthalate	117-81-7	< 35	U	1500	35	ug/Kg
Di-n-octyl phthalate	117-84-0	< 37	U	1500	37	ug/Kg
Benzo(b)fluoranthene	205-99-2	< 82	U	1500	82	ug/Kg

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-07	Client ID:	SB-184-8
Date Collected:	6/29/2004	Date Received:	7/2/2004
Date Analyzed:	7/15/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	BE012671.D
Dilution:	2	Instrument ID:	BNAE
Analytical Method:	8270	Analytical Run ID:	BE071204
Sample Wt/Vol:	15.1	Extract Vol:	1000
Injection Vol:	2	% Moisture:	15
Associated Blank:	PB16274B		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 53	U	1500	53	ug/Kg
Benzo(a)pyrene	50-32-8	< 27	U	1500	27	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	< 37	U	1500	37	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 45	U	1500	45	ug/Kg
Benzo(g,h,i)perylene	191-24-2	< 67	U	1500	67	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	98.6	33 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	121.38	40 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	73.02	37 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	73.98	37 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	101.78	34 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	70.92	35 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	223393	3.47			
Naphthalene-d8	1146-65-2	929601	4.25			
Acenaphthene-d10	15067-26-2	524717	5.34			
Phenanthrene-d10	1517-22-2	924570	6.32			
Chrysene-d12	1719-03-5	930198	8.40			
Perylene-d12	1520-96-3	965736	10.00			
TENTITIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~410~~	~~AB~~	~~2.51~~		~~ug/Kg~~ R
~~1-Pentadecanethiol~~ unknown	25276704	340	J	8.19		ug/Kg
~~4-Methyl-1,5-Heptadiene~~ unknown	998947	510	J	9.17		ug/Kg
~~26,26-Dimethyl-5,23-ergostadien~~ unknown	0	2100	J	15.07		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-08

Client ID: SB-074-8

Date Collected: 6/29/2004
Date Analyzed: 7/15/2004
Date Extracted: 7/14/2004
Dilution: 1
Analytical Method: 8270
Sample Wt/Vol: 15.2
Injection Vol: 2
Associated Blank: PB16274B

Date Received: 7/2/2004
Matrix: SOIL
File ID: BE012666.D
Instrument ID: BNAE
Analytical Run ID: BE071204
Extract Vol: 500
% Moisture: 17

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 39	U	390	39	ug/Kg
Phenol	108-95-2	< 16	U	390	16	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 19	U	390	19	ug/Kg
2-Chlorophenol	95-57-8	< 17	U	390	17	ug/Kg
2-Methylphenol	95-48-7	< 25	U	390	25	ug/Kg
2,2-oxybis(1-Chloropropane)	108-60-1	< 21	U	390	21	ug/Kg
Acetophenone	98-86-2	< 21	U	390	21	ug/Kg
3+4-Methylphenols	106-44-5	< 18	U	390	18	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 17	U	390	17	ug/Kg
Hexachloroethane	67-72-1	< 19	U	390	19	ug/Kg
Nitrobenzene	98-95-3	< 20	U	390	20	ug/Kg
Isophorone	78-59-1	< 15	U	390	15	ug/Kg
2-Nitrophenol	88-75-5	< 16	U	390	16	ug/Kg
2,4-Dimethylphenol	105-67-9	< 21	U	390	21	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 18	U	390	18	ug/Kg
2,4-Dichlorophenol	120-83-2	< 14	U	390	14	ug/Kg
Naphthalene	91-20-3	~~< 110~~ 81 J	~~U~~ J	390	8.6	ug/Kg
4-Chloroaniline	106-47-8	< 150	U	390	150	ug/Kg
Hexachlorobutadiene	87-68-3	< 14	U	390	14	ug/Kg
Caprolactam	105-60-2	< 15	U	390	15	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 12	U	390	12	ug/Kg
2-Methylnaphthalene	91-57-6	120	J	390	6.8	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 9.9	U	390	9.9	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 14	U	390	14	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 26	U	990	26	ug/Kg
1,1-Biphenyl	92-52-4	< 12	U	390	12	ug/Kg
2-Chloronaphthalene	91-58-7	< 8.2	U	390	8.2	ug/Kg
2-Nitroaniline	88-74-4	< 14	U	990	14	ug/Kg
Dimethylphthalate	131-11-3	< 9.4	U	390	9.4	ug/Kg
Acenaphthylene	208-96-8	< 12	U	390	12	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-08 | Client ID: SB-074-8

Date Collected: 6/29/2004 | Date Received: 7/2/2004
Date Analyzed: 7/15/2004 | Matrix: SOIL
Date Extracted: 7/14/2004 | File ID: BE012666.D
Dilution: 1 | Instrument ID: BNAE
Analytical Method: 8270 | Analytical Run ID: BE071204
Sample Wt/Wol: 15.2 | Extract Vol: 500
Injection Vol: 2 | % Moisture: 17
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 17	U	390	17	ug/Kg
3-Nitroaniline	99-09-2	< 64	U	990	64	ug/Kg
Acenaphthene	83-32-9	< 8.7	U	390	8.7	ug/Kg
2,4-Dinitrophenol	51-28-5	< 17	U	990	17	ug/Kg
Nitrophenol	100-02-7	< 38	U	990	38	ug/Kg
Dibenzofuran	132-64-9	< 13	U	390	13	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 7.9	U	390	7.9	ug/Kg
Diethylphthalate	84-66-2	< 12	U	390	12	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 9.8	U	390	9.8	ug/Kg
Fluorene	86-73-7	< 11	U	390	11	ug/Kg
4-Nitroaniline	100-01-6	< 31	U	990	31	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 23	U	990	23	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 10	U	390	10	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 10	U	390	10	ug/Kg
Hexachlorobenzene	118-74-1	< 7.4	U	390	7.4	ug/Kg
Atrazine	1912-24-9	< 12	U	390	12	ug/Kg
Pentachlorophenol	87-86-5	< 12	U	990	12	ug/Kg
Phenanthrene	85-01-8	< 8.8	U	390	8.8	ug/Kg
Anthracene	120-12-7	< 9.4	U	390	9.4	ug/Kg
Carbazole	86-74-8	< 8.7	U	390	8.7	ug/Kg
Di-n-butylphthalate	84-74-2	< 5.2	U	390	5.2	ug/Kg
Fluoranthene	206-44-0	< 5.5	U	390	5.5	ug/Kg
Pyrene	129-00-0	< 7.0	U	390	7.0	ug/Kg
Butylbenzylphthalate	85-68-7	< 13	U	390	13	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 63	U	390	63	ug/Kg
Benzo(a)anthracene	56-55-3	< 5.9	U	390	5.9	ug/Kg
Chrysene	218-01-9	< 12	U	390	12	ug/Kg
bis(2-Ethylhexyl)phthalate	117-81-7	51	J	390	9.0	ug/Kg
Di-n-octyl phthalate	117-84-0	< 9.4	U	390	9.4	ug/Kg
Benzo(b)fluoranthene	205-99-2	< 21	U	390	21	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-08 Client ID: SB-074-8

Date Collected: 6/29/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012666.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Wol: 15.2 Extract Vol: 500
Injection Vol: 2 % Moisture: 17
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 13	U	390	13	ug/Kg
Benzo(a)pyrene	50-32-8	< 6.8	U	390	6.8	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	< 9.5	U	390	9.5	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 12	U	390	12	ug/Kg
Benzo(g,h,i)perylene	191-24-2	< 17	U	390	17	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	232.93	78 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	248.73	83 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	126.58	63 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	144.28	72 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	232.89	78 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	155.78	78 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	229376	3.47			
Naphthalene-d8	1146-65-2	871535	4.25			
Acenaphthene-d10	15067-26-2	496585	5.34			
Phenanthrene-d10	1517-22-2	839889	6.30			
Chrysene-d12	1719-03-5	774780	8.26			
Perylene-d12	1520-96-3	794605	9.83			
TENTATIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~210~~	~~AB~~	~~2.50~~		~~ug/Kg~~ R
~~Benzene, 1,2-dimethyl~~	~~95476~~	~~170~~	~~J~~	~~2.81~~		~~ug/Kg~~ R
~~Benzene, 4-ethyl-1,2-dimethyl~~	~~934805~~ C10H14	130	J	3.65		ug/Kg
~~Naphthalene, decahydro-, trans-~~	~~493027~~ C10H18	150	J	3.68		ug/Kg
~~Benzene, 1-methyl-3-(1-methyleth~~	~~535773~~ C10H14	270	J	3.75		ug/Kg
~~Naphthalene, decahydro-2-methyl-~~	~~2958761~~ unknown	240	J	3.92		ug/Kg
~~Unknown~~ C10H16		150	J	4.07		ug/Kg
~~5-Undecene, 6-methyl-~~	~~83687450~~ unknown	160	J	4.33		ug/Kg
~~Naphthalene, decahydro-2,6-dimet~~	~~1618220~~ unknown	180	J	4.39		ug/Kg

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-08 Client ID: SB-074-8

Date Collected: 6/29/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012666.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.2 Extract Vol: 500
Injection Vol: 2 % Moisture: 17
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TENTITIVE IDENTIFIED COMPOUNDS						
~~Octane, 2,3,7-trimethyl~~	~~62016346~~ alkene	380	J	4.45		ug/Kg
~~Triallylsilane~~	~~0~~ unknown	180	J	4.54		ug/Kg
~~Dodecane, 2,7,10-trimethyl~~	~~74645980~~ unknown	200	J	4.62		ug/Kg
~~Benzocycloheptatriene~~	~~264095~~ $C_{11}H_{10}$	200	J	4.75		ug/Kg
~~odecane, 2,6,10-trimethyl-~~	~~3891983~~ alkane	460	J	4.82		ug/Kg
~~ndecane, 4,6-dimethyl-~~	~~17312822~~ alkane	360	J	5.10		ug/Kg
Hexadecanoic acid	57103	140	J	6.61		ug/Kg
~~9-Octadecenamide, (Z)-~~	~~301020~~ amide	100	J	7.75		ug/Kg
~~1-Nonadecanol~~	~~1454848~~ alcohol	450	J	8.04		ug/Kg
~~Squalene~~	~~7683649~~ unknown	120	J	9.00		ug/Kg
~~1(4H)-Phenanthrenone, 4a,4b,5,6~~	~~57684158~~ unknown	390	J	14.84		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-09 Client ID: SB-334-8

Date Collected: 6/30/2004
Date Analyzed: 7/15/2004
Date Extracted: 7/14/2004
Dilution: 1
Analytical Method: 8270
Sample Wt/Vol: 15.1
Injection Vol: 2
Associated Blank: PB16274B

Date Received: 7/2/2004
Matrix: SOIL
File ID: BE012668.D
Instrument ID: BNAE
Analytical Run ID: BE071204
Extract Vol: 500
% Moisture: 23

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 42	U	430	42	ug/Kg
Phenol	108-95-2	< 18	U	430	18	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 21	U	430	21	ug/Kg
2-Chlorophenol	95-57-8	< 18	U	430	18	ug/Kg
2-Methylphenol	95-48-7	< 27	U	430	27	ug/Kg
)oxybis(1-Chloropropane)	108-60-1	< 23	U	430	23	ug/Kg
Acetophenone	98-86-2	< 22	U	430	22	ug/Kg
3+4-Methylphenols	106-44-5	< 20	U	430	20	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 19	U	430	19	ug/Kg
Hexachloroethane	67-72-1	< 20	U	430	20	ug/Kg
Nitrobenzene	98-95-3	< 22	U	430	22	ug/Kg
Isophorone	78-59-1	< 16	U	430	16	ug/Kg
2-Nitrophenol	88-75-5	< 17	U	430	17	ug/Kg
2,4-Dimethylphenol	105-67-9	< 23	U	430	23	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 20	U	430	20	ug/Kg
2,4-Dichlorophenol	120-83-2	< 15	U	430	15	ug/Kg
Naphthalene	91-20-3	< 9.3	U	430	9.3	ug/Kg
4-Chloroaniline	106-47-8	< 160	U	430	160	ug/Kg
Hexachlorobutadiene	87-68-3	< 15	U	430	15	ug/Kg
Caprolactam	105-60-2	< 16	U	430	16	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 13	U	430	13	ug/Kg
2-Methylnaphthalene	91-57-6	< 7.4	U	430	7.4	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 11	U	430	11	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 16	U	430	16	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 28	U	1100	28	ug/Kg
1,1-Biphenyl	92-52-4	< 13	U	430	13	ug/Kg
? loronaphthalene	91-58-7	< 8.9	U	430	8.9	ug/Kg
2- itroaniline	88-74-4	< 16	U	1100	16	ug/Kg
Dimethylphthalate	131-11-3	< 10	U	430	10	ug/Kg
Acenaphthylene	208-96-8	< 13	U	430	13	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-09	Client ID:	SB-334-8
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/15/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	BE012668.D
Dilution:	1	Instrument ID:	BNAE
Analytical Method:	8270	Analytical Run ID:	BE071204
Sample Wt/Vol:	15.1	Extract Vol:	500
Injection Vol:	2	% Moisture:	23
Associated Blank:	PB16274B		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 18	U	430	18	ug/Kg
3-Nitroaniline	99-09-2	< 69	U	1100	69	ug/Kg
Acenaphthene	83-32-9	< 9.4	U	430	9.4	ug/Kg
2,4-Dinitrophenol	51-28-5	< 19	U	1100	19	ug/Kg
Nitrophenol	100-02-7	< 42	U	1100	42	ug/Kg
benzofuran	132-64-9	< 14	U	430	14	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 8.5	U	430	8.5	ug/Kg
Diethylphthalate	84-66-2	< 13	U	430	13	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 11	U	430	11	ug/Kg
Fluorene	86-73-7	< 12	U UJ	430	12	ug/Kg
4-Nitroaniline	100-01-6	< 33	U	1100	33	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 25	U	1100	25	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 11	U	430	11	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 11	U	430	11	ug/Kg
Hexachlorobenzene	118-74-1	< 8.0	U	430	8.0	ug/Kg
Atrazine	1912-24-9	< 13	U	430	13	ug/Kg
Pentachlorophenol	87-86-5	< 13	U	1100	13	ug/Kg
Phenanthrene	85-01-8	~~< 100~~ 9.4	J UJ	430	9.6	ug/Kg
Anthracene	120-12-7	< 10	U	430	10	ug/Kg
Carbazole	86-74-8	< 9.4	U UJ	430	9.4	ug/Kg
Di-n-butylphthalate	84-74-2	< 5.7	U	430	5.7	ug/Kg
Fluoranthene	206-44-0	170	J	430	5.9	ug/Kg
Pyrene	129-00-0	170	J	430	7.6	ug/Kg
Butylbenzylphthalate	85-68-7	< 14	U UJ	430	14	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 69	U	430	69	ug/Kg
Benzo(a)anthracene	56-55-3	120	J	430	6.5	ug/Kg
ysene	218-01-9	170	J	430	14	ug/Kg
bis(2-Ethylhexyl)phthalate	117-81-7	< 9.8	U UJ	430	9.8	ug/Kg
Di-n-octyl phthalate	117-84-0	< 10	U	430	10	ug/Kg
Benzo(b)fluoranthene	205-99-2	120	J	430	23	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-09	Client ID:	SB-334-8
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/15/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	BE012668.D
Dilution:	1	Instrument ID:	BNAE
Analytical Method:	8270	Analytical Run ID:	BE071204
Sample Wt/Vol:	15.1	Extract Vol:	500
Injection Vol:	2	% Moisture:	23
Associated Blank:	PB16274B		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	73	~~J~~ J ✓	430	15	ug/Kg
Benzo(a)pyrene	50-32-8	88	~~J~~ J ✓	430	7.4	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	~~< 70~~ 10	~~J~~ UJ	430	10	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 13	~~U~~ UJ	430	13	ug/Kg
Benzo(g,h,i)perylene	191-24-2	68	~~J~~ J ✓	430	19	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	215.55	72 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	232.9	78 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	132.8	66 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	146.14	73 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	236.92	79 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	142.61	71 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	243386	3.47			
Naphthalene-d8	1146-65-2	878702	4.25			
Acenaphthene-d10	15067-26-2	508414	5.34			
Phenanthrene-d10	1517-22-2	893872	6.31			
Chrysene-d12	1719-03-5	840687	8.34			
Perylene-d12	1520-96-3	864744	9.92			
TENTATIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~470~~	~~AB~~	~~2.50~~		~~ug/Kg~~ R
~~Hexadecanoic acid~~	~~57103~~ unknown	260	J	6.63		ug/Kg
~~2-Phenylnaphthalene~~	~~35465715~~ C16H12	320	J	6.86		ug/Kg
Phenanthrene, ~~2,~~ dimethyl-	1576698	110	J	7.00		ug/Kg
~~Heptadecene~~	~~6765395~~ alcohol	320	J	8.12		ug/Kg
~~Unknown~~	C20H12	130	J	9.78		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-10	Client ID:	SB-290-4
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/15/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	BE012669.D
Dilution:	2	Instrument ID:	BNAE
Analytical Method:	8270	Analytical Run ID:	BE071204
Sample Wt/Vol:	15.3	Extract Vol:	1000
Injection Vol:	2	% Moisture:	7
Associated Blank:	PB16274B		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 140	U	1400	140	ug/Kg
Phenol	108-95-2	< 58	U	1400	58	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 69	U	1400	69	ug/Kg
2-Chlorophenol	95-57-8	< 60	U	1400	60	ug/Kg
Methylphenol	95-48-7	< 88	U	1400	88	ug/Kg
,2-oxybis(1-Chloropropane)	108-60-1	< 76	U	1400	76	ug/Kg
Acetophenone	98-86-2	< 73	U	1400	73	ug/Kg
3+4-Methylphenols	106-44-5	< 64	U	1400	64	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 62	U	1400	62	ug/Kg
Hexachloroethane	67-72-1	< 67	U	1400	67	ug/Kg
Nitrobenzene	98-95-3	< 71	U	1400	71	ug/Kg
Isophorone	78-59-1	< 52	U	1400	52	ug/Kg
2-Nitrophenol	88-75-5	< 56	U	1400	56	ug/Kg
2,4-Dimethylphenol	105-67-9	< 76	U	1400	76	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 64	U	1400	64	ug/Kg
2,4-Dichlorophenol	120-83-2	< 49	U	1400	49	ug/Kg
Naphthalene	91-20-3	< 30	U	1400	30	ug/Kg
4-Chloroaniline	106-47-8	< 520	U	1400	520	ug/Kg
Hexachlorobutadiene	87-68-3	< 49	U	1400	49	ug/Kg
Caprolactam	105-60-2	< 52	U	1400	52	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 41	U	1400	41	ug/Kg
2-Methylnaphthalene	91-57-6	< 24	U	1400	24	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 35	U	1400	35	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 51	U	1400	51	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 92	U	3500	92	ug/Kg
1,1-Biphenyl	92-52-4	< 41	U	1400	41	ug/Kg
Chloronaphthalene	91-58-7	< 29	U	1400	29	ug/Kg
2-Nitroaniline	88-74-4	< 51	U	3500	51	ug/Kg
Dimethylphthalate	131-11-3	< 33	U	1400	33	ug/Kg
Acenaphthylene	208-96-8	< 42	U	1400	42	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-10 Client ID: SB-290-4

Date Collected: 6/30/2004
Date Analyzed: 7/15/2004
Date Extracted: 7/14/2004
Dilution: 2
Analytical Method: 8270
Sample Wt/Vol: 15.3
Injection Vol: 2
Associated Blank: PB16274B

Date Received: 7/2/2004
Matrix: SOIL
File ID: BE012669.D
Instrument ID: BNAE
Analytical Run ID: BE071204
Extract Vol: 1000
% Moisture: 7

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 60	U	1400	60	ug/Kg
3-Nitroaniline	99-09-2	< 230	U	3500	230	ug/Kg
Acenaphthene	83-32-9	< 31	U	1400	31	ug/Kg
2,4-Dinitrophenol	51-28-5	< 62	U	3500	62	ug/Kg
Nitrophenol	100-02-7	< 140	U	3500	140	ug/Kg
Dibenzofuran	132-64-9	< 46	U	1400	46	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 28	U	1400	28	ug/Kg
Diethylphthalate	84-66-2	< 44	U	1400	44	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 35	U	1400	35	ug/Kg
Fluorene	86-73-7	< 40	U	1400	40	ug/Kg
4-Nitroaniline	100-01-6	< 110	U	3500	110	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 81	U	3500	81	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 35	U	1400	35	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 37	U	1400	37	ug/Kg
Hexachlorobenzene	118-74-1	< 26	U	1400	26	ug/Kg
Atrazine	1912-24-9	< 43	U	1400	43	ug/Kg
Pentachlorophenol	87-86-5	< 43	U	3500	43	ug/Kg
Phenanthrene	85-01-8	< 31	U	1400	31	ug/Kg
Anthracene	120-12-7	< 33	U	1400	33	ug/Kg
Carbazole	86-74-8	< 31	U	1400	31	ug/Kg
Di-n-butylphthalate	84-74-2	< 19	U	1400	19	ug/Kg
Fluoranthene	206-44-0	< 19	U	1400	19	ug/Kg
Pyrene	129-00-0	< 25	U	1400	25	ug/Kg
Butylbenzylphthalate	85-68-7	< 47	U	1400	47	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 220	U	1400	220	ug/Kg
nzo(a)anthracene	56-55-3	< 21	U	1400	21	ug/Kg
Chrysene	218-01-9	< 44	U	1400	44	ug/Kg
bis(2-Ethylhexyl)phthalate	117-81-7	< 32	U	1400	32	ug/Kg
Di-n-octyl phthalate	117-84-0	< 33	U	1400	33	ug/Kg
Benzo(b)fluoranthene	205-99-2	< 74	U	1400	74	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-10 Client ID: SB-290-4

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012669.D
Dilution: 2 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Wol: 15.3 Extract Vol: 1000
Injection Vol: 2 % Moisture: 7
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 48	U	1400	48	ug/Kg
Benzo(a)pyrene	50-32-8	< 24	U	1400	24	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	< 34	U	1400	34	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 41	U	1400	41	ug/Kg
nzo(g,h,i)perylene	191-24-2	< 61	U	1400	61	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	126.04	42 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	107.84	36 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	64.72	32 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	69.26	35 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	109.2	36 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	75.38	38 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	223491	3.47			
Naphthalene-d8	1146-65-2	933341	4.25			
Acenaphthene-d10	15067-26-2	533426	5.34			
Phenanthrene-d10	1517-22-2	922194	6.31			
Chrysene-d12	1719-03-5	924382	8.31			
Perylene-d12	1520-96-3	938257	9.89			
TENTITIVE IDENTIFIED COMPOUNDS						
Benzenesulfonamide, N,4-dimethy	640619	900	J	5.94		ug/Kg
~~9-Eicosene, (E)-~~	~~74685293~~ unknown	410	J	8.10		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-11 Client ID: SB-348-12

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012667.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.2 Extract Vol: 500
Injection Vol: 2 % Moisture: 14
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 37	U	380	37	ug/Kg
Phenol	108-95-2	< 16	U	380	16	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 19	U	380	19	ug/Kg
2-Chlorophenol	95-57-8	< 16	U	380	16	ug/Kg
Methylphenol	95-48-7	< 24	U	380	24	ug/Kg
2,2-oxybis(1-Chloropropane)	108-60-1	< 20	U	380	20	ug/Kg
Acetophenone	98-86-2	< 20	U	380	20	ug/Kg
3+4-Methylphenols	106-44-5	< 17	U	380	17	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 17	U	380	17	ug/Kg
Hexachloroethane	67-72-1	< 18	U	380	18	ug/Kg
Nitrobenzene	98-95-3	< 19	U	380	19	ug/Kg
Isophorone	78-59-1	< 14	U	380	14	ug/Kg
2-Nitrophenol	88-75-5	< 15	U	380	15	ug/Kg
2,4-Dimethylphenol	105-67-9	< 20	U	380	20	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 17	U	380	17	ug/Kg
2,4-Dichlorophenol	120-83-2	< 13	U	380	13	ug/Kg
Naphthalene	91-20-3	< 8.2	U	380	8.2	ug/Kg
4-Chloroaniline	106-47-8	< 140	U	380	140	ug/Kg
Hexachlorobutadiene	87-68-3	< 13	U	380	13	ug/Kg
Caprolactam	105-60-2	< 14	U	380	14	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 11	U	380	11	ug/Kg
2-Methylnaphthalene	91-57-6	< 6.5	U	380	6.5	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 9.5	U	380	9.5	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 14	U	380	14	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 25	U	950	25	ug/Kg
1-Biphenyl	92-52-4	< 11	U	380	11	ug/Kg
2-Chloronaphthalene	91-58-7	< 7.9	U	380	7.9	ug/Kg
2-Nitroaniline	88-74-4	< 14	U	950	14	ug/Kg
Dimethylphthalate	131-11-3	< 9.0	U	380	9.0	ug/Kg
Acenaphthylene	208-96-8	< 11	U	380	11	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-11 Client ID: SB-348-12

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012667.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.2 Extract Vol: 500
Injection Vol: 2 % Moisture: 14
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 16	U	380	16	ug/Kg
3-Nitroaniline	99-09-2	< 61	U	950	61	ug/Kg
Acenaphthene	83-32-9	< 8.4	U	380	8.4	ug/Kg
2,4-Dinitrophenol	51-28-5	< 17	U	950	17	ug/Kg
4-Nitrophenol	100-02-7	< 37	U	950	37	ug/Kg
Dibenzofuran	132-64-9	< 12	U	380	12	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 7.6	U	380	7.6	ug/Kg
Diethylphthalate	84-66-2	< 12	U	380	12	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 9.4	U	380	9.4	ug/Kg
Fluorene	86-73-7	< 11	U	380	11	ug/Kg
4-Nitroaniline	100-01-6	< 30	U	950	30	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 22	U	950	22	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 9.6	U	380	9.6	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 10	U	380	10	ug/Kg
Hexachlorobenzene	118-74-1	< 7.1	U	380	7.1	ug/Kg
Atrazine	1912-24-9	< 12	U	380	12	ug/Kg
Pentachlorophenol	87-86-5	< 12	U	950	12	ug/Kg
Phenanthrene	85-01-8	< 8.5	U	380	8.5	ug/Kg
Anthracene	120-12-7	< 9.0	U	380	9.0	ug/Kg
Carbazole	86-74-8	< 8.4	U	380	8.4	ug/Kg
Di-n-butylphthalate	84-74-2	< 5.0	U	380	5.0	ug/Kg
Fluoranthene	206-44-0	68	J	380	5.3	ug/Kg
Pyrene	129-00-0	75	J	380	6.8	ug/Kg
Butylbenzylphthalate	85-68-7	< 13	U	380	13	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 61	U	380	61	ug/Kg
Benzo(a)anthracene	56-55-3	< 40 5	UJ	380	5.7	ug/Kg
Chrysene	218-01-9	< 43 12	UJ	380	12	ug/Kg
bis(2-Ethylhexyl)phthalate	117-81-7	< 8.7	U	380	8.7	ug/Kg
Di-n-octyl phthalate	117-84-0	< 9.0	U	380	9.0	ug/Kg
Benzo(b)fluoranthene	205-99-2	< 20	U	380	20	ug/Kg

UJ

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-11 Client ID: SB-348-12

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012667.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.2 Extract Vol: 500
Injection Vol: 2 % Moisture: 14
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 13	U	380	13	ug/Kg
Benzo(a)pyrene	50-32-8	< 6.5	U	380	6.5	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	< 9.2	U	380	9.2	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 11	U	380	11	ug/Kg
Benzo(g,h,i)perylene	191-24-2	< 16	U	380	16	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	197.41	66 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	212.2	71 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	127.88	64 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	132.46	66 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	237.17	79 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	156.16	78 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	237967	3.47			
Naphthalene-d8	1146-65-2	865524	4.25			
Acenaphthene-d10	15067-26-2	497566	5.34			
Phenanthrene-d10	1517-22-2	863902	6.32			
Chrysene-d12	1719-03-5	825171	8.40			
Perylene-d12	1520-96-3	840228	10.00			
TENTITIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~370~~	~~AB~~	~~2.50~~		~~ug/Kg~~ R
Benzenesulfonamide, N,4-dimethy	640619	190	J	5.95		ug/Kg
~~1-Nonadecanol~~	~~1454848~~ unknown	340	J	8.17		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-12

Client ID: SB-348-12DUP

Date Collected: 6/30/2004
Date Analyzed: 7/15/2004
Date Extracted: 7/14/2004
Dilution: 1
Analytical Method: 8270
Sample Wt/Vol: 15.0
Injection Vol: 2
Associated Blank: PB16274B

Date Received: 7/2/2004
Matrix: SOIL
File ID: RE012662.D
Instrument ID: BNAE
Analytical Run ID: BE071204
Extract Vol: 500
% Moisture: 10

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 36	U	370	36	ug/Kg
Phenol	108-95-2	< 15	U	370	15	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 18	U	370	18	ug/Kg
2-Chlorophenol	95-57-8	< 16	U	370	16	ug/Kg
2-Methylphenol	95-48-7	< 23	U	370	23	ug/Kg
2,2-oxybis(1-Chloropropane)	108-60-1	< 20	U	370	20	ug/Kg
Acetophenone	98-86-2	< 19	U	370	19	ug/Kg
3+4-Methylphenols	106-44-5	< 17	U	370	17	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 16	U	370	16	ug/Kg
Hexachloroethane	67-72-1	< 18	U	370	18	ug/Kg
Nitrobenzene	98-95-3	< 19	U	370	19	ug/Kg
Isophorone	78-59-1	< 14	U	370	14	ug/Kg
2-Nitrophenol	88-75-5	< 15	U	370	15	ug/Kg
2,4-Dimethylphenol	105-67-9	< 20	U	370	20	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 17	U	370	17	ug/Kg
2,4-Dichlorophenol	120-83-2	< 13	U	370	13	ug/Kg
Naphthalene	91-20-3	< 8.0	U	370	8.0	ug/Kg
4-Chloroaniline	106-47-8	< 140	U	370	140	ug/Kg
Hexachlorobutadiene	87-68-3	< 13	U	370	13	ug/Kg
Caprolactam	105-60-2	< 14	U	370	14	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 11	U	370	11	ug/Kg
2-Methylnaphthalene	91-57-6	< 6.3	U	370	6.3	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 9.2	U	370	9.2	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 13	U	370	13	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 24	U	920	24	ug/Kg
1,1-Biphenyl	92-52-4	< 11	U	370	11	ug/Kg
2-Chloronaphthalene	91-58-7	< 7.7	U	370	7.7	ug/Kg
2-Nitroaniline	88-74-4	< 13	U	920	13	ug/Kg
Dimethylphthalate	131-11-3	< 8.8	U	370	8.8	ug/Kg
Acenaphthylene	208-96-8	< 11	U	370	11	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-12 Client ID: SB-348-12DUP

Date Collected: 6/30/2004
Date Analyzed: 7/15/2004
Date Extracted: 7/14/2004
Dilution: 1
Analytical Method: 8270
Sample Wt/Vol: 15.0
Injection Vol: 2
Associated Blank: PB16274B

Date Received: 7/2/2004
Matrix: SOIL
File ID: BE012662.D
Instrument ID: BNAE
Analytical Run ID: BE071204
Extract Vol: 500
% Moisture: 10

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 16	U	370	16	ug/Kg
3-Nitroaniline	99-09-2	< 59	U	920	59	ug/Kg
Acenaphthene	83-32-9	< 8.1	U	370	8.1	ug/Kg
2,4-Dinitrophenol	51-28-5	< 16	U	920	16	ug/Kg
Nitrophenol	100-02-7	< 36	U	920	36	ug/Kg
Dibenzofuran	132-64-9	< 12	U	370	12	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 7.3	U	370	7.3	ug/Kg
Diethylphthalate	84-66-2	< 12	U	370	12	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 9.1	U	370	9.1	ug/Kg
Fluorene	86-73-7	< 10	U	370	10	ug/Kg
4-Nitroaniline	100-01-6	< 29	U	920	29	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 21	U	920	21	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 9.3	U	370	9.3	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 9.6	U	370	9.6	ug/Kg
Hexachlorobenzene	118-74-1	< 6.9	U	370	6.9	ug/Kg
Atrazine	1912-24-9	< 11	U	370	11	ug/Kg
Pentachlorophenol	87-86-5	< 11	U	920	11	ug/Kg
Phenanthrene	85-01-8	< 8.2	U	370	8.2	ug/Kg
Anthracene	120-12-7	< 8.8	U	370	8.8	ug/Kg
Carbazole	86-74-8	< 8.1	U	370	8.1	ug/Kg
Di-n-butylphthalate	84-74-2	< 4.9	U	370	4.9	ug/Kg
Fluoranthene	206-44-0	< 5.1	U	370	5.1	ug/Kg
Pyrene	129-00-0	< 6.5	U	370	6.5	ug/Kg
Butylbenzylphthalate	85-68-7	< 12	U	370	12	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 59	U	370	59	ug/Kg
Benzo(a)anthracene	56-55-3	< 5.5	U	370	5.5	ug/Kg
Chrysene	218-01-9	< 12	U	370	12	ug/Kg
bis(2-Ethylhexyl)phthalate	117-81-7	< 8.4	U	370	8.4	ug/Kg
Di-n-octyl phthalate	117-84-0	< 8.8	U	370	8.8	ug/Kg
Benzo(b)fluoranthene	205-99-2	< 20	U	370	20	ug/Kg

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-12 | Client ID: SB-348-12DUP

Date Collected: 6/30/2004 | Date Received: 7/2/2004
Date Analyzed: 7/15/2004 | Matrix: SOIL
Date Extracted: 7/14/2004 | File ID: BE012662.D
Dilution: 1 | Instrument ID: BNAE
Analytical Method: 8270 | Analytical Run ID: BE071204
Sample Wt/Wol: 15.0 | Extract Vol: 500
Injection Vol: 2 | % Moisture: 10
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 13	U	370	13	ug/Kg
Benzo(a)pyrene	50-32-8	< 6.3	U	370	6.3	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	< 8.9	U	370	8.9	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 11	U	370	11	ug/Kg
Benzo(g,h,i)perylene	191-24-2	< 16	U	370	16	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	240.37	80 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	255.37	85 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	147.45	74 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	147.77	74 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	235.46	78 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	153.71	77 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	242438	3.47			
Naphthalene-d8	1146-65-2	895375	4.25			
Acenaphthene-d10	15067-26-2	510002	5.34			
Phenanthrene-d10	1517-22-2	895110	6.31			
Chrysene-d12	1719-03-5	843130	8.29			
Perylene-d12	1520-96-3	862936	9.86			
TENTITIVE IDENTIFIED COMPOUNDS						
~~ACP~~		430	AB	2.51		ug/Kg R
~~Cyclotetradecane~~ Unknown	~~295170~~	360	J	8.07		ug/Kg
~~Squalene~~ Unknown	~~7683649~~	210	J	9.03		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-13 Client ID: SB-324-8

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012660.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.1 Extract Vol: 500
Injection Vol: 2 % Moisture: 12
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 37	U	370	37	ug/Kg
Phenol	108-95-2	< 16	U	370	16	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 18	U	370	18	ug/Kg
2-Chlorophenol	95-57-8	< 16	U	370	16	ug/Kg
2-Methylphenol	95-48-7	< 24	U	370	24	ug/Kg
2-oxybis(1-Chloropropane)	108-60-1	< 20	U	370	20	ug/Kg
Acetophenone	98-86-2	< 20	U	370	20	ug/Kg
3+4-Methylphenols	106-44-5	< 17	U	370	17	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 16	U	370	16	ug/Kg
Hexachloroethane	67-72-1	< 18	U	370	18	ug/Kg
Nitrobenzene	98-95-3	< 19	U	370	19	ug/Kg
Isophorone	78-59-1	< 14	U	370	14	ug/Kg
2-Nitrophenol	88-75-5	< 15	U	370	15	ug/Kg
2,4-Dimethylphenol	105-67-9	< 20	U	370	20	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 17	U	370	17	ug/Kg
2,4-Dichlorophenol	120-83-2	< 13	U UJ	370	13	ug/Kg
Naphthalene	91-20-3	< 8.1	U	370	8.1	ug/Kg
4-Chloroaniline	106-47-8	< 140	U	370	140	ug/Kg
Hexachlorobutadiene	87-68-3	< 13	U	370	13	ug/Kg
Caprolactam	105-60-2	< 14	U	370	14	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 11	U	370	11	ug/Kg
2-Methylnaphthalene	91-57-6	< 6.4	U	370	6.4	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 9.4	U	370	9.4	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 14	U	370	14	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 25	U	940	25	ug/Kg
1,1-Biphenyl	92-52-4	< 11	U	370	11	ug/Kg
Chloronaphthalene	91-58-7	< 7.8	U	370	7.8	ug/Kg
2-Nitroaniline	88-74-4	< 14	U	940	14	ug/Kg
Dimethylphthalate	131-11-3	< 8.9	U	370	8.9	ug/Kg
Acenaphthylene	208-96-8	< 11	U	370	11	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-13 Client ID: SB-324-8

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012660.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Wol: 15.1 Extract Vol: 500
Injection Vol: 2 % Moisture: 12
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 16	U	370	16	ug/Kg
3-Nitroaniline	99-09-2	< 60	U	940	60	ug/Kg
Acenaphthene	83-32-9	< 8.2	U	370	8.2	ug/Kg
2,4-Dinitrophenol	51-28-5	< 16	U	940	16	ug/Kg
4-Nitrophenol	100-02-7	< 36	U	940	36	ug/Kg
benzofuran	132-64-9	< 12	U	370	12	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 7.4	U	370	7.4	ug/Kg
Diethylphthalate	84-66-2	< 12	U	370	12	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 9.3	U	370	9.3	ug/Kg
Fluorene	86-73-7	< 11	U	370	11	ug/Kg
4-Nitroaniline	100-01-6	< 29	U	940	29	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 22	U	940	22	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 9.5	U	370	9.5	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 9.8	U	370	9.8	ug/Kg
Hexachlorobenzene	118-74-1	< 7.0	U	370	7.0	ug/Kg
Atrazine	1912-24-9	< 11	U	370	11	ug/Kg
Pentachlorophenol	87-86-5	< 12	U	940	12	ug/Kg
Phenanthrene	85-01-8	< 8.3	U	370	8.3	ug/Kg
Anthracene	120-12-7	< 8.9	U	370	8.9	ug/Kg
Carbazole	86-74-8	< 8.2	U	370	8.2	ug/Kg
Di-n-butylphthalate	84-74-2	< 5.0	U	370	5.0	ug/Kg
Fluoranthene	206-44-0	< 5.2	U	370	5.2	ug/Kg
Pyrene	129-00-0	< 6.7	U	370	6.7	ug/Kg
Butylbenzylphthalate	85-68-7	< 13	U	370	13	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 60	U	370	60	ug/Kg
Benzo(a)anthracene	56-55-3	< 5.6	U	370	5.6	ug/Kg
ysene	218-01-9	< 12	U	370	12	ug/Kg
(2-Ethylhexyl)phthalate	117-81-7	< 8.6	U	370	8.6	ug/Kg
Di-n-octyl phthalate	117-84-0	< 8.9	U	370	8.9	ug/Kg
Benzo(b)fluoranthene	205-99-2	< 20	U	370	20	ug/Kg

Chemtech Consulting Group

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-13 Client ID: SB-324-8

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012660.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.1 Extract Vol: 500
Injection Vol: 2 % Moisture: 12
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 13	U	370	13	ug/Kg
Benzo(a)pyrene	50-32-8	< 6.4	U	370	6.4	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	< 9.0	U	370	9.0	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 11	U	370	11	ug/Kg
Benzo(g,h,i)perylene	191-24-2	< 16	U	370	16	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	241.75	81 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	251.25	84 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	152.37	76 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	152.36	76 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	232.25	77 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	153.18	77 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	253557	3.47			
Naphthalene-d8	1146-65-2	918540	4.25			
Acenaphthene-d10	15067-26-2	521099	5.34			
Phenanthrene-d10	1517-22-2	902777	6.32			
Chrysene-d12	1719-03-5	874617	8.38			
Perylene-d12	1520-96-3	889886	9.97			
TENTITIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~410~~	~~AB~~	~~2.50~~		~~ug/Kg~~ R
~~2-Eicosene, (E)-~~ unknown	~~74685339~~	330	J	8.16		ug/Kg
~~5,9,13-Pentadecatrien-2-one, 6,10,~~ unknown	~~1117528~~	200	J	9.14		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-14

Client ID: SB-204-8

Date Collected: 6/29/2004
Date Analyzed: 7/15/2004
Date Extracted: 7/14/2004
Dilution: 5
Analytical Method: 8270
Sample Wt/Vol: 15.1
Injection Vol: 2
Associated Blank: PB16274B

Date Received: 7/2/2004
Matrix: SOIL
File ID: BE012672.D
Instrument ID: BNAE
Analytical Run ID: BE071204
Extract Vol: 1000
% Moisture: 28

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 450	U	4600	450	ug/Kg
Phenol	108-95-2	< 190	U	4600	190	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 230	U	4600	230	ug/Kg
2-Chlorophenol	95-57-8	< 200	U	4600	200	ug/Kg
Methylphenol	95-48-7	< 290	U	4600	290	ug/Kg
2,2-oxybis(1-Chloropropane)	108-60-1	< 250	U	4600	250	ug/Kg
Acetophenone	98-86-2	< 240	U	4600	240	ug/Kg
3+4-Methylphenols	106-44-5	< 210	U	4600	210	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 200	U	4600	200	ug/Kg
Hexachloroethane	67-72-1	< 220	U	4600	220	ug/Kg
Nitrobenzene	98-95-3	< 230	U	4600	230	ug/Kg
Isophorone	78-59-1	< 170	U	4600	170	ug/Kg
2-Nitrophenol	88-75-5	< 180	U	4600	180	ug/Kg
2,4-Dimethylphenol	105-67-9	< 250	U	4600	250	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 210	U	4600	210	ug/Kg
2,4-Dichlorophenol	120-83-2	< 160	U	4600	160	ug/Kg
Naphthalene	91-20-3	~~< 2100~~ 97	J UJ	4600	100	ug/Kg
4-Chloroaniline	106-47-8	< 1700	U	4600	1700	ug/Kg
Hexachlorobutadiene	87-68-3	< 160	U	4600	160	ug/Kg
Caprolactam	105-60-2	< 170	U	4600	170	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 140	U	4600	140	ug/Kg
2-Methylnaphthalene	91-57-6	810	J	4600	79	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 110	U	4600	110	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 170	U	4600	170	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 300	U	11000	300	ug/Kg
1,1-Biphenyl	92-52-4	< 140	U	4600	140	ug/Kg
2-Chloronaphthalene	91-58-7	< 95	U	4600	95	ug/Kg
2-Nitroaniline	88-74-4	< 170	U	11000	170	ug/Kg
Dimethylphthalate	131-11-3	< 110	U	4600	110	ug/Kg
Acenaphthylene	208-96-8	< 140	U	4600	140	ug/Kg

Chemtech Consulting Group

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-14

Client ID: SB-204-8

Date Collected: 6/29/2004
Date Analyzed: 7/15/2004
Date Extracted: 7/14/2004
Dilution: 5
Analytical Method: 8270
Sample Wt/Vol: 15.1
Injection Vol: 2
Associated Blank: PB16274B

Date Received: 7/2/2004
Matrix: SOIL
File ID: BE012672.D
Instrument ID: BNAE
Analytical Run ID: BE071204
Extract Vol: 1000
% Moisture: 28

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 190	U	4600	190	ug/Kg
3-Nitroaniline	99-09-2	< 740	U	11000	740	ug/Kg
Acenaphthene	83-32-9	4200	J	4600	100	ug/Kg
2,4-Dinitrophenol	51-28-5	< 200	U	11000	200	ug/Kg
4-Nitrophenol	100-02-7	< 450	U	11000	450	ug/Kg
Dibenzofuran	132-64-9	2900	J	4600	150	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 91	U	4600	91	ug/Kg
Diethylphthalate	84-66-2	< 140	U	4600	140	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 110	U	4600	110	ug/Kg
Fluorene	86-73-7	3900	J	4600	130	ug/Kg
4-Nitroaniline	100-01-6	< 360	U	11000	360	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 270	U	11000	270	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 120	U	4600	120	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 120	U	4600	120	ug/Kg
Hexachlorobenzene	118-74-1	< 86	U	4600	86	ug/Kg
Atrazine	1912-24-9	< 140	U	4600	140	ug/Kg
Pentachlorophenol	87-86-5	< 140	U	11000	140	ug/Kg
Phenanthrene	85-01-8	36000	J	4600	100	ug/Kg
Anthracene	120-12-7	9000	J	4600	110	ug/Kg
Carbazole	86-74-8	2900	J	4600	100	ug/Kg
Di-n-butylphthalate	84-74-2	< 61	U	4600	61	ug/Kg
Fluoranthene	206-44-0	31000	J	4600	64	ug/Kg
Pyrene	129-00-0	26000	J	4600	82	ug/Kg
Butylbenzylphthalate	85-68-7	< 150	U	4600	150	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 730	U	4600	730	ug/Kg
Benzo(a)anthracene	56-55-3	11000	J	4600	69	ug/Kg
Chrysene	218-01-9	9400	J	4600	150	ug/Kg
bis(2-Ethylhexyl)phthalate	117-81-7	< 110	U	4600	110	ug/Kg
Di-n-octyl phthalate	117-84-0	< 110	U	4600	110	ug/Kg
Benzo(b)fluoranthene	205-99-2	8800	J	4600	240	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-14 Client ID: SB-204-8

Date Collected: 6/29/2004 Date Received: 7/2/2004
Date Analyzed: 7/15/2004 Matrix: SOIL
Date Extracted: 7/14/2004 File ID: BE012672.D
Dilution: 5 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.1 Extract Vol: 1000
Injection Vol: 2 % Moisture: 28
Associated Blank: PB16274B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	4000	~~J~~ J	4600	160	ug/Kg
Benzo(a)pyrene	50-32-8	7600	J	4600	79	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	3900	~~J~~ J	4600	110	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 130	~~U~~ UJ	4600	130	ug/Kg
Benzo(g,h,i)perylene	191-24-2	4000	~~J~~ J	4600	200	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	156.25	52 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	116.2	39 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	75.10001	38 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	73.45	37 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	102.75	34 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	68.6	34 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	212158	3.47			
Naphthalene-d8	1146-65-2	924537	4.25			
Acenaphthene-d10	15067-26-2	541884	5.34			
Phenanthrene-d10	1517-22-2	986433	6.32			
Chrysene-d12	1719-03-5	1021652	8.36			
Perylene-d12	1520-96-3	1002760	9.94			
TENTITIVE IDENTIFIED COMPOUNDS						
~~(6H)Cyclobuta[jk]phenanthrene~~ ~~0~~ $C_{15}H_{10}$		1200	J	6.75		ug/Kg
~~11H-Benzo[b]fluorene~~ ~~243174~~ unknown		1100	J	7.54		ug/Kg
~~11H-Benzo[a]fluorene~~ ~~238846~~ $C_{17}H_{12}$		1500	J	7.63		ug/Kg
~~Pyrene, 2-methyl-~~ ~~3442782~~ unknown		1300	J	7.72		ug/Kg
~~Triphenylene~~ ~~217594~~ unknown		1400	J	8.16		ug/Kg
~~Cyclopenta[cd]pyrene~~ ~~37208373~~ $C_{18}H_{10}$		990	J	8.19		ug/Kg
~~3,4-Dihydrocyclopenta(cd)pyrene (~~ ~~25732745~~ Unknown		940	J	8.45		ug/Kg
Unknown		1400	J	9.57		ug/Kg
~~Perylene~~ ~~198550~~ $C_{20}H_{12}$		4800	J	9.80		ug/Kg

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-14 Client ID: SB-204-8

Date Collected: 6/29/2004
Date Analyzed: 7/15/2004
Date Extracted: 7/14/2004
Dilution: 5
Analytical Method: 8270
Sample Wt/Wol: 15.1
Injection Vol: 2
Associated Blank: PB16274B

Date Received: 7/2/2004
Matrix: SOIL
File ID: BE012672.D
Instrument ID: BNAE
Analytical Run ID: BE071204
Extract Vol: 1000
% Moisture: 28

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TENTITIVE IDENTIFIED COMPOUNDS						
~~Dibenzo[def,mno]chrysene~~	~~191264~~ C22H12	1200	J	12.77		ug/Kg
~~1,2:3,4-Dibenzpyrene~~	~~0~~ C24H14	1300	J	15.62		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-15 Client ID: SB-244-8

Date Collected: 6/30/2004
Date Analyzed: 7/19/2004
Date Extracted: 7/17/2004
Dilution: 1
Analytical Method: 8270
Sample Wt/Vol: 15.1
Injection Vol: 2
Associated Blank: PB16346B

Date Received: 7/2/2004
Matrix: SOIL
File ID: BE012802.D
Instrument ID: BNAE
Analytical Run ID: BE071204
Extract Vol: 500
% Moisture: 16

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 38	U	390	38	ug/Kg
Phenol	108-95-2	< 16	U	390	16	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 19	U	390	19	ug/Kg
2-Chlorophenol	95-57-8	< 17	U	390	17	ug/Kg
2-Methylphenol	95-48-7	< 25	U	390	25	ug/Kg
oxybis(1-Chloropropane)	108-60-1	< 21	U	390	21	ug/Kg
cetophenone	98-86-2	< 20	U	390	20	ug/Kg
3+4-Methylphenols	106-44-5	< 18	U	390	18	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 17	U	390	17	ug/Kg
Hexachloroethane	67-72-1	< 19	U	390	19	ug/Kg
Nitrobenzene	98-95-3	< 20	U	390	20	ug/Kg
Isophorone	78-59-1	< 15	U	390	15	ug/Kg
2-Nitrophenol	88-75-5	< 16	U	390	16	ug/Kg
2,4-Dimethylphenol	105-67-9	< 21	U	390	21	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 18	U	390	18	ug/Kg
2,4-Dichlorophenol	120-83-2	< 14	U	390	14	ug/Kg
Naphthalene	91-20-3	< 8.5	U	390	8.5	ug/Kg
4-Chloroaniline	106-47-8	< 150	U	390	150	ug/Kg
Hexachlorobutadiene	87-68-3	< 14	U	390	14	ug/Kg
Caprolactam	105-60-2	< 14	U	390	14	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 12	U	390	12	ug/Kg
2-Methylnaphthalene	91-57-6	< 6.8	U	390	6.8	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 9.8	U	390	9.8	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 14	U	390	14	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 26	U	980	26	ug/Kg
1,1-Biphenyl	92-52-4	< 12	U	390	12	ug/Kg
Chloronaphthalene	91-58-7	< 8.2	U	390	8.2	ug/Kg
troaniline	88-74-4	< 14	U	980	14	ug/Kg
Dimethylphthalate	131-11-3	< 9.4	U	390	9.4	ug/Kg
Acenaphthylene	208-96-8	< 12	U	390	12	ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-15	Client ID:	SB-244-8
Date Collected:	6/30/2004	Date Received:	7/2/2004
Date Analyzed:	7/19/2004	Matrix:	SOIL
Date Extracted:	7/17/2004	File ID:	BE012802.D
Dilution:	1	Instrument ID:	BNAE
Analytical Method:	8270	Analytical Run ID:	BE071204
Sample Wt/Vol:	15.1	Extract Vol:	500
Injection Vol:	2	% Moisture:	16
Associated Blank:	PB16346B		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 17	U	390	17	ug/Kg
3-Nitroaniline	99-09-2	< 63	U	980	63	ug/Kg
Acenaphthene	83-32-9	< 8.7	U	390	8.7	ug/Kg
2,4-Dinitrophenol	51-28-5	< 17	U	980	17	ug/Kg
4-Nitrophenol	100-02-7	< 38	U	980	38	ug/Kg
Dibenzofuran	132-64-9	< 13	U	390	13	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 7.8	U	390	7.8	ug/Kg
Diethylphthalate	84-66-2	< 12	U	390	12	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 9.7	U	390	9.7	ug/Kg
Fluorene	86-73-7	< 11	U	390	11	ug/Kg
4-Nitroaniline	100-01-6	< 31	U	980	31	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 23	U	980	23	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 10	U	390	10	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 10	U	390	10	ug/Kg
Hexachlorobenzene	118-74-1	< 7.3	U	390	7.3	ug/Kg
Atrazine	1912-24-9	< 12	U	390	12	ug/Kg
Pentachlorophenol	87-86-5	< 12	U	980	12	ug/Kg
Phenanthrene	85-01-8	< 8.8	U	390	8.8	ug/Kg
Anthracene	120-12-7	< 9.4	U	390	9.4	ug/Kg
Carbazole	86-74-8	< 8.7	U	390	8.7	ug/Kg
Di-n-butylphthalate	84-74-2	< 5.2	U	390	5.2	ug/Kg
Fluoranthene	206-44-0	< 5.5	U	390	5.5	ug/Kg
Pyrene	129-00-0	< 7.0	U	390	7.0	ug/Kg
Butylbenzylphthalate	85-68-7	< 13	U	390	13	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 63	U	390	63	ug/Kg
Benzo(a)anthracene	56-55-3	< 5.9	U	390	5.9	ug/Kg
Chrysene	218-01-9	< 12	U	390	12	ug/Kg
Bis(2-Ethylhexyl)phthalate	117-81-7	60	J	390	9.0	ug/Kg
Di-n-octyl phthalate	117-84-0	< 9.4	U	390	9.4	ug/Kg
Benzo(b)fluoranthene	205-99-2	< 21	U	390	21	ug/Kg

U → UJ

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-15 Client ID: SB-244-8

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/19/2004 Matrix: SOIL
Date Extracted: 7/17/2004 File ID: BE012802.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Wol: 15.1 Extract Vol: 500
Injection Vol: 2 % Moisture: 16
Associated Blank: PB16346B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 13	U	390	13	ug/Kg
Benzo(a)pyrene	50-32-8	< 6.8	U	390	6.8	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	< 9.5	U	390	9.5	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 11	U	390	11	ug/Kg
Benzo(g,h,i)perylene	191-24-2	< 17	U	390	17	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	260.27	87 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	256.97	86 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	136.97	68 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	150.87	75 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	250.84	84 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	161.4	81 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	214388	3.45			
Naphthalene-d8	1146-65-2	786615	4.23			
Acenaphthene-d10	15067-26-2	468241	5.32			
Phenanthrene-d10	1517-22-2	848229	6.29			
Chrysene-d12	1719-03-5	767766	8.34			
Perylene-d12	1520-96-3	805619	9.91			
TENTITIVE IDENTIFIED COMPOUNDS						
Sulfur, mol. (S8)	10544500	2000	J	6.62		ug/Kg
Sulfur	7704349	12000	J	6.81		ug/Kg
~~3-Eicosene, (E)~~ unknown	~~74685339~~	660	J	8.11		ug/Kg
~~Lup-20(29)-en-3-one~~ $C_{30}H_{48}O$	1617705	470	J	12.96		ug/Kg
~~araxastorol~~ unknown	1059149	460	J	13.25		ug/Kg

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SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-16 Client ID: SB-264-8

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/20/2004 Matrix: SOIL
Date Extracted: 7/17/2004 File ID: BE012833.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.1 Extract Vol: 500
Injection Vol: 2 % Moisture: 24
Associated Blank: PB16346B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 42	U	430	42	ug/Kg
Phenol	108-95-2	< 18	U	430	18	ug/Kg
bis(2-Chloroethyl)ether	111-44-4	< 21	U	430	21	ug/Kg
2-Chlorophenol	95-57-8	< 19	U	430	19	ug/Kg
Methylphenol	95-48-7	< 27	U	430	27	ug/Kg
2,2-oxybis(1-Chloropropane)	108-60-1	< 23	U	430	23	ug/Kg
Acetophenone	98-86-2	< 23	U	430	23	ug/Kg
3+4-Methylphenols	106-44-5	< 20	U	430	20	ug/Kg
N-Nitroso-di-n-propylamine	621-64-7	< 19	U	430	19	ug/Kg
Hexachloroethane	67-72-1	< 21	U	430	21	ug/Kg
Nitrobenzene	98-95-3	< 22	U	430	22	ug/Kg
Isophorone	78-59-1	< 16	U	430	16	ug/Kg
2-Nitrophenol	88-75-5	< 17	U	430	17	ug/Kg
2,4-Dimethylphenol	105-67-9	< 23	U	430	23	ug/Kg
bis(2-Chloroethoxy)methane	111-91-1	< 20	U	430	20	ug/Kg
2,4-Dichlorophenol	120-83-2	< 15	U	430	15	ug/Kg
Naphthalene	91-20-3	< ~~85~~ 9.2	J UJ	430	9.4	ug/Kg
4-Chloroaniline	106-47-8	< 160	U	430	160	ug/Kg
Hexachlorobutadiene	87-68-3	< 15	U	430	15	ug/Kg
Caprolactam	105-60-2	< 16	U	430	16	ug/Kg
4-Chloro-3-methylphenol	59-50-7	< 13	U	430	13	ug/Kg
2-Methylnaphthalene	91-57-6	< 7.4	U	430	7.4	ug/Kg
Hexachlorocyclopentadiene	77-47-4	< 11	U	430	11	ug/Kg
2,4,6-Trichlorophenol	88-06-2	< 16	U	430	16	ug/Kg
2,4,5-Trichlorophenol	95-95-4	< 29	U	1100	29	ug/Kg
1,1-Biphenyl	92-52-4	< 13	U	430	13	ug/Kg
Chloronaphthalene	91-58-7	< 9.0	U	430	9.0	ug/Kg
2-Nitroaniline	88-74-4	< 16	U	1100	16	ug/Kg
Dimethylphthalate	131-11-3	< 10	U	430	10	ug/Kg
Acenaphthylene	208-96-8	< 13	U	430	13	ug/Kg

Chemtech Consulting Group

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-16 Client ID: SB-264-8

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/20/2004 Matrix: SOIL
Date Extracted: 7/17/2004 File ID: BE012833.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.1 Extract Vol: 500
Injection Vol: 2 % Moisture: 24
Associated Blank: PB16346B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 18	U > UJ	430	18	ug/Kg
3-Nitroaniline	99-09-2	< 70	U	1100	70	ug/Kg
Acenaphthene	83-32-9	~~< 100~~ 9.3	~~J~~ UJ	430	9.5	ug/Kg
2,4-Dinitrophenol	51-28-5	< 19	U > UJ	1100	19	ug/Kg
4-Nitrophenol	100-02-7	< 42	U	1100	42	ug/Kg
Dibenzofuran	132-64-9	64	~~J~~ J ✓	430	14	ug/Kg
2,4-Dinitrotoluene	121-14-2	< 8.6	U	430	8.6	ug/Kg
Diethylphthalate	84-66-2	< 14	U } UJ	430	14	ug/Kg
4-Chlorophenyl-phenylether	7005-72-3	< 11	U	430	11	ug/Kg
Fluorene	86-73-7	100	~~J~~ J ✓	430	12	ug/Kg
4-Nitroaniline	100-01-6	< 34	U	1100	34	ug/Kg
4,6-Dinitro-2-methylphenol	534-52-1	< 25	U	1100	25	ug/Kg
N-Nitrosodiphenylamine	86-30-6	< 11	U	430	11	ug/Kg
4-Bromophenyl-phenylether	101-55-3	< 11	U } UJ	430	11	ug/Kg
Hexachlorobenzene	118-74-1	< 8.1	U	430	8.1	ug/Kg
Atrazine	1912-24-9	< 13	U	430	13	ug/Kg
Pentachlorophenol	87-86-5	< 13	U	1100	13	ug/Kg
Phenanthrene	85-01-8	860	J ✓	430	9.7	ug/Kg
Anthracene	120-12-7	250	~~J~~ J ✓	430	10	ug/Kg
Carbazole	86-74-8	81	~~J~~ J ✓	430	9.5	ug/Kg
Di-n-butylphthalate	84-74-2	< 5.7	~~U~~ UJ	430	5.7	ug/Kg
Fluoranthene	206-44-0	1000	J ✓	430	6.0	ug/Kg
Pyrene	129-00-0	900	J ✓	430	7.7	ug/Kg
Butylbenzylphthalate	85-68-7	< 14	~~U~~ > UJ	430	14	ug/Kg
3,3-Dichlorobenzidine	91-94-1	< 69	~~U~~	430	69	ug/Kg
Benzo(a)anthracene	56-55-3	470	J ✓	430	6.5	ug/Kg
Chrysene	218-01-9	390	~~J~~ J ✓	430	14	ug/Kg
bis(2-Ethylhexyl)phthalate	117-81-7	44	~~J~~ J ✓	430	9.9	ug/Kg
Di-n-octyl phthalate	117-84-0	< 10	~~U~~ UJ	430	10	ug/Kg
Benzo(b)fluoranthene	205-99-2	330	~~J~~ J ✓	430	23	ug/Kg

Chemtech Consulting Group

SVOC

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-16 Client ID: SB-264-8

Date Collected: 6/30/2004 Date Received: 7/2/2004
Date Analyzed: 7/20/2004 Matrix: SOIL
Date Extracted: 7/17/2004 File ID: BE012833.D
Dilution: 1 Instrument ID: BNAE
Analytical Method: 8270 Analytical Run ID: BE071204
Sample Wt/Vol: 15.1 Extract Vol: 500
Injection Vol: 2 % Moisture: 24
Associated Blank: PB16346B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	210	~~J~~	430	15	ug/Kg
Benzo(a)pyrene	50-32-8	300	~~J~~ J	430	7.4	ug/Kg
Indeno(1,2,3-cd)pyrene	193-39-5	150	~~J~~ J	430	10	ug/Kg
Dibenz(a,h)anthracene	53-70-3	< 13	~~U~~ UJ	430	13	ug/Kg
Benzo(g,h,i)perylene	191-24-2	160	~~J~~ J	430	19	ug/Kg
SURROGATES						
2-Fluorophenol	367-12-4	261.87	87 %	25 - 121		SPK: 300
Phenol-d5	13127-88-3	279.83	93 %	24 - 113		SPK: 300
Nitrobenzene-d5	4165-60-0	161.48	81 %	23 - 120		SPK: 200
2-Fluorobiphenyl	321-60-8	169.59	85 %	30 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	266.53	89 %	19 - 122		SPK: 300
Terphenyl-d14	1718-51-0	155.83	78 %	18 - 137		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	210769	3.45			
Naphthalene-d8	1146-65-2	770083	4.23			
Acenaphthene-d10	15067-26-2	459675	5.32			
Phenanthrene-d10	1517-22-2	852668	6.31			
Chrysene-d12	1719-03-5	835095	8.41			
Perylene-d12	1520-96-3	793438	10.00			
TENTITIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~550~~	~~AB~~	~~2.47~~		~~ug/Kg~~ R
~~4H-Cyclopenta[def]phenanthrene~~	203645 unknown	150	J	6.75		ug/Kg
~~Benzo[e]pyrene~~	~~192972~~ C20H12	230	J	9.85		ug/Kg

Chemtech Consulting Group

Surrogate Summary
SW-846

SL o.: S3409
Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
PB16274B	SBLK01	2-Fluorophenol	300	275.13	92		25.00	121.00
		Phenol-d5	300	277.19	92		24.00	113.00
		Nitrobenzene-d5	200	148.48	74		23.00	120.00
		2-Fluorobiphenyl	200	153.16	77		30.00	116.00
		2,4,6-Tribromophenol	300	225.41	75		19.00	122.00
		Terphenyl-d14	200	152.38	76		18.00	137.00
PB16274BS	SLCS01	2-Fluorophenol	300	275.4	92		25.00	121.00
		Phenol-d5	300	259.71	87		24.00	113.00
		Nitrobenzene-d5	200	158.96	79		23.00	120.00
		2-Fluorobiphenyl	200	166.91	83		30.00	116.00
		2,4,6-Tribromophenol	300	240.68	80		19.00	122.00
		Terphenyl-d14	200	132.88	66		18.00	137.00
PB16346B	SBLK02	2-Fluorophenol	300	284.6	95		25.00	121.00
		Phenol-d5	300	304.19	101		24.00	113.00
		Nitrobenzene-d5	200	189.02	95		23.00	120.00
		2-Fluorobiphenyl	200	180.35	90		30.00	116.00
		2,4,6-Tribromophenol	300	266.6	89		19.00	122.00
		Terphenyl-d14	200	161.44	81		18.00	137.00
PB16346BS	SLCS02	2-Fluorophenol	300	262.39	87		25.00	121.00
		Phenol-d5	300	260.66	87		24.00	113.00
		Nitrobenzene-d5	200	166.65	83		23.00	120.00
		2-Fluorobiphenyl	200	173.76	87		30.00	116.00
		2,4,6-Tribromophenol	300	254.96	85		19.00	122.00
		Terphenyl-d14	200	137.27	69		18.00	137.00
S3409-02	SB-314-8	2-Fluorophenol	300	234.55	78		25.00	121.00
		Phenol-d5	300	242.54	81		24.00	113.00
		Nitrobenzene-d5	200	147.71	74		23.00	120.00
		2-Fluorobiphenyl	200	144.56	72		30.00	116.00
		2,4,6-Tribromophenol	300	227.07	76		19.00	122.00
		Terphenyl-d14	200	150.45	75		18.00	137.00
S3409-03	SB-314-8DUP	2-Fluorophenol	300	231.6	77		25.00	121.00
		Phenol-d5	300	241.39	80		24.00	113.00
		Nitrobenzene-d5	200	148.06	74		23.00	120.00
		2-Fluorobiphenyl	200	146.31	73		30.00	116.00
		2,4,6-Tribromophenol	300	227.26	76		19.00	122.00
		Terphenyl-d14	200	152.47	76		18.00	137.00
S3409-03MS	SB-314-8DUPMS	2-Fluorophenol	300	239.09	80		25.00	121.00
		Phenol-d5	300	262.67	88		24.00	113.00
		Nitrobenzene-d5	200	158.67	79		23.00	120.00
		2-Fluorobiphenyl	200	180.82	90		30.00	116.00
		2,4,6-Tribromophenol	300	278.84	93		19.00	122.00
		Terphenyl-d14	200	160.88	80		18.00	137.00

Chemtech Consulting Group

Surrogate Summary
SW-846

SDG No.: S3409
Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
S3409-03MSD	SB-314-8DUPMSD	2-Fluorophenol	300	259.89	87		25.00	121.00
		Phenol-d5	300	273.22	91		24.00	113.00
		Nitrobenzene-d5	200	167.34	84		23.00	120.00
		2-Fluorobiphenyl	200	187.3	94		30.00	116.00
		2,4,6-Tribromophenol	300	273.41	91		19.00	122.00
		Terphenyl-d14	200	159.58	80		18.00	137.00
S3409-04	SB-034-8	2-Fluorophenol	300	157	52		25.00	121.00
		Phenol-d5	300	174	58		24.00	113.00
		Nitrobenzene-d5	200	112	56		23.00	120.00
		2-Fluorobiphenyl	200	129	64		30.00	116.00
		2,4,6-Tribromophenol	300	153	51		19.00	122.00
		Terphenyl-d14	200	134	67		18.00	137.00
S3409-05	SB-044-8	2-Fluorophenol	300	241.24	80		25.00	121.00
		Phenol-d5	300	250.55	84		24.00	113.00
		Nitrobenzene-d5	200	140.35	70		23.00	120.00
		2-Fluorobiphenyl	200	150.88	75		30.00	116.00
		2,4,6-Tribromophenol	300	238.91	80		19.00	122.00
		Terphenyl-d14	200	158.52	79		18.00	137.00
S3409-06	SB-0412-16	2-Fluorophenol	300	238.48	79		25.00	121.00
		Phenol-d5	300	249.61	83		24.00	113.00
		Nitrobenzene-d5	200	136.1	68		23.00	120.00
		2-Fluorobiphenyl	200	148.65	74		30.00	116.00
		2,4,6-Tribromophenol	300	236.8	79		19.00	122.00
		Terphenyl-d14	200	152.21	76		18.00	137.00
S3409-07	SB-184-8	2-Fluorophenol	300	98.6	33		25.00	121.00
		Phenol-d5	300	121.38	40		24.00	113.00
		Nitrobenzene-d5	200	73.02	37		23.00	120.00
		2-Fluorobiphenyl	200	73.98	37		30.00	116.00
		2,4,6-Tribromophenol	300	101.78	34		19.00	122.00
		Terphenyl-d14	200	70.92	35		18.00	137.00
S3409-08	SB-074-8	2-Fluorophenol	300	232.93	78		25.00	121.00
		Phenol-d5	300	248.73	83		24.00	113.00
		Nitrobenzene-d5	200	126.58	63		23.00	120.00
		2-Fluorobiphenyl	200	144.28	72		30.00	116.00
		2,4,6-Tribromophenol	300	232.89	78		19.00	122.00
		Terphenyl-d14	200	155.78	78		18.00	137.00
S3409-09	SB-334-8	2-Fluorophenol	300	215.55	72		25.00	121.00
		Phenol-d5	300	232.9	78		24.00	113.00
		Nitrobenzene-d5	200	132.8	66		23.00	120.00
		2-Fluorobiphenyl	200	146.14	73		30.00	116.00
		2,4,6-Tribromophenol	300	236.92	79		19.00	122.00
		Terphenyl-d14	200	142.61	71		18.00	137.00

Chemtech Consulting Group

Surrogate Summary
SW-846

SL o.: S3409
Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
S3409-10	SB-290-4	2-Fluorophenol	300	126.04	42		25.00	121.00
		Phenol-d5	300	107.84	36		24.00	113.00
		Nitrobenzene-d5	200	64.72	32		23.00	120.00
		2-Fluorobiphenyl	200	69.26	35		30.00	116.00
		2,4,6-Tribromophenol	300	109.2	36		19.00	122.00
		Terphenyl-d14	200	75.38	38		18.00	137.00
S3409-11	SB-348-12	2-Fluorophenol	300	197.41	66		25.00	121.00
		Phenol-d5	300	212.2	71		24.00	113.00
		Nitrobenzene-d5	200	127.88	64		23.00	120.00
		2-Fluorobiphenyl	200	132.46	66		30.00	116.00
		2,4,6-Tribromophenol	300	237.17	79		19.00	122.00
		Terphenyl-d14	200	156.16	78		18.00	137.00
S3409-12	SB-348-12DUP	2-Fluorophenol	300	240.37	80		25.00	121.00
		Phenol-d5	300	255.37	85		24.00	113.00
		Nitrobenzene-d5	200	147.45	74		23.00	120.00
		2-Fluorobiphenyl	200	147.77	74		30.00	116.00
		2,4,6-Tribromophenol	300	235.46	78		19.00	122.00
		Terphenyl-d14	200	153.71	77		18.00	137.00
S3409-13	SB-324-8	2-Fluorophenol	300	241.75	81		25.00	121.00
		Phenol-d5	300	251.25	84		24.00	113.00
		Nitrobenzene-d5	200	152.37	76		23.00	120.00
		2-Fluorobiphenyl	200	152.36	76		30.00	116.00
		2,4,6-Tribromophenol	300	232.25	77		19.00	122.00
		Terphenyl-d14	200	153.18	77		18.00	137.00
S3409-14	SB-204-8	2-Fluorophenol	300	156.25	52		25.00	121.00
		Phenol-d5	300	116.2	39		24.00	113.00
		Nitrobenzene-d5	200	5.10001	38		23.00	120.00
		2-Fluorobiphenyl	200	73.45	37		30.00	116.00
		2,4,6-Tribromophenol	300	102.75	34		19.00	122.00
		Terphenyl-d14	200	68.6	34		18.00	137.00
S3409-15	SB-244-8	2-Fluorophenol	300	260.27	87		25.00	121.00
		Phenol-d5	300	256.97	86		24.00	113.00
		Nitrobenzene-d5	200	136.97	68		23.00	120.00
		2-Fluorobiphenyl	200	150.87	75		30.00	116.00
		2,4,6-Tribromophenol	300	250.84	84		19.00	122.00
		Terphenyl-d14	200	161.4	81		18.00	137.00
S3409-16	SB-264-8	2-Fluorophenol	300	261.87	87		25.00	121.00
		Phenol-d5	300	279.83	93		24.00	113.00
		Nitrobenzene-d5	200	161.48	81		23.00	120.00
		2-Fluorobiphenyl	200	169.59	85		30.00	116.00
		2,4,6-Tribromophenol	300	266.53	89		19.00	122.00
		Terphenyl-d14	200	155.83	78		18.00	137.00

Surrogate Summary
SW-846

SDG No.: S3409
Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
S3567-11MS	S3567-11MS	2-Fluorophenol	300	208.63	70		25.00	121.00
		Phenol-d5	300	196.64	66		24.00	113.00
		Nitrobenzene-d5	200	140.35	70		23.00	120.00
		2-Fluorobiphenyl	200	159.54	80		30.00	116.00
		2,4,6-Tribromophenol	300	246.66	82		19.00	122.00
		Terphenyl-d14	200	153.09	77		18.00	137.00
S3567-12MSD	S3567-12MSD	2-Fluorophenol	300	205.21	68		25.00	121.00
		Phenol-d5	300	200.69	67		24.00	113.00
		Nitrobenzene-d5	200	141.92	71		23.00	120.00
		2-Fluorobiphenyl	200	164.78	82		30.00	116.00
		2,4,6-Tribromophenol	300	249.02	83		19.00	122.00
		Terphenyl-d14	200	154.24	77		18.00	137.00

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

G No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: S3567-11MS	**Client Sample ID:**		**S3567-11MS**							
Phenol	2400	0	1700	71				20	150	
bis(2-Chloroethyl)ether	2400	0	1300	54				37	114	
2-Chlorophenol	2400	0	1600	67				52	107	
2-Methylphenol	2400	0	1800	75				50	100	
2,2-oxybis(1-Chloropropane)	2400	0	1700	71				44	102	
3+4-Methylphenols	2400	0	1800	75				30	106	
N-Nitroso-di-n-propylamine	2400	0	1800	75				20	150	
Hexachloroethane	2400	0	2500	104	*			43	101	
Nitrobenzene	2400	0	1600	67				50	109	
Isophorone	2400	0	2200	92				48	111	
2-Nitrophenol	2400	0	2000	83				52	116	
2,4-Dimethylphenol	2400	0	1900	79				47	109	
bis(2-Chloroethoxy)methane	2400	0	1900	79				51	111	
2,4-Dichlorophenol	2400	0	2300	96				55	109	
Naphthalene	2400	0	2000	83				34	120	
4-Chloroaniline	2400	0	1300	54				15	92	
Hexachlorobutadiene	2400	0	1900	79				20	150	
4-Chloro-3-methylphenol	2400	0	2000	83				60	100	
2-Methylnaphthalene	2400	790	2100	55				49	115	
Hexachlorocyclopentadiene	4800	0	1100	23				20	107	
2,4,6-Trichlorophenol	2400	0	2400	100				50	112	
2,4,5-Trichlorophenol	2400	0	2400	100				55	105	
1,1-Biphenyl	2400	0	2200	92				20	150	
2-Chloronaphthalene	2400	0	2100	88				50	113	
2-Nitroaniline	2400	0	2100	88				52	110	
Dimethylphthalate	2400	0	2200	92				45	122	
Acenaphthylene	2400	0	2100	88				52	107	
2,6-Dinitrotoluene	2400	0	2200	92				49	116	
3-Nitroaniline	2400	0	1700	71				27	88	
Acenaphthene	2400	0	2200	92				65	100	
2,4-Dinitrophenol	4800	0	920	19	*			26	131	
4-Nitrophenol	4800	0	3000	62				45	95	
Dibenzofuran	2400	0	2300	96				52	113	
2,4-Dinitrotoluene	2400	0	2000	83				56	104	
Diethylphthalate	2400	0	2200	92				49	115	
4-Chlorophenyl-phenylether	2400	0	2300	96				37	127	
Fluorene	2400	0	2300	96				47	117	
4-Nitroaniline	2400	0	2300	96				41	115	
4,6-Dinitro-2-methylphenol	2400	0	660	28	*			40	105	
N-Nitrosodiphenylamine	2400	0	2400	100				20	150	

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: S3567-11MS	**Client Sample ID:**		**S3567-11MS**							
4-Bromophenyl-phenylether	2400	0	2400	100				53	113	
Hexachlorobenzene	2400	0	2400	100				48	118	
Atrazine	2400	0	2300	96				37	122	
Pentachlorophenol	4800	0	6000	125*				20	150	
Phenanthrene	2400	84	2400	96				20	150	
Anthracene	2400	0	2300	96				54	108	
Carbazole	2400	0	2400	100				54	117	
Di-n-butylphthalate	2400	0	2500	104				52	112	
Fluoranthene	2400	0	2200	92				55	105	
Pyrene	2400	0	2500	104				20	150	
Butylbenzylphthalate	2400	0	2500	104				55	120	
3,3-Dichlorobenzidine	2400	0	1900	79				31	111	
Benzo(a)anthracene	2400	0	2500	104	*			60	100	
Chrysene	2400	0	2200	92				51	115	
bis(2-Ethylhexyl)phthalate	2400	120	2500	99				54	124	
Di-n-octyl phthalate	2400	0	2300	96				53	122	
Benzo(b)fluoranthene	2400	0	2400	100				42	126	
Benzo(k)fluoranthene	2400	0	2300	96				43	125	
Benzo(a)pyrene	2400	0	2000	83				58	102	
Indeno(1,2,3-cd)pyrene	2400	0	960	40	*			42	124	
Dibenz(a,h)anthracene	2400	0	1300	54				41	130	
Benzo(g,h,i)perylene	2400	0	1100	46				39	130	

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

G No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: S3567-12MSD	**Client Sample ID:**		**S3567-12MSD**							
Phenol	2400	0	1700	71		0		20	150	50
bis(2-Chloroethyl)ether	2400	0	1400	58		7		37	114	50
2-Chlorophenol	2400	0	1600	67		0		52	107	50
2-Methylphenol	2400	0	1700	71		5		50	100	50
2,2-oxybis(1-Chloropropane)	2400	0	1700	71		0		44	102	50
3+4-Methylphenols	2400	0	1700	71		5		30	106	50
N-Nitroso-di-n-propylamine	2400	0	1800	75		0		20	150	50
Hexachloroethane	2400	0	2600	108	*	4		43	101	50
Nitrobenzene	2400	0	1600	67		0		50	109	50
Isophorone	2400	0	2200	92		0		48	111	50
2-Nitrophenol	2400	0	2000	83		0		52	116	50
2,4-Dimethylphenol	2400	0	1400	58		31		47	109	50
bis(2-Chloroethoxy)methane	2400	0	1800	75		5		51	111	50
2,4-Dichlorophenol	2400	0	2300	96		0		55	109	50
Naphthalene	2400	0	2000	83		0		34	120	50
4-Chloroaniline	2400	0	1200	50		8		15	92	50
Hexachlorobutadiene	2400	0	1900	79		0		20	150	50
4-Chloro-3-methylphenol	2400	0	2000	83		0		60	100	50
2-Methylnaphthalene	2400	790	2100	55		0		49	115	50
Hexachlorocyclopentadiene	4800	0	570	12	*	63	*	20	107	50
2,4,6-Trichlorophenol	2400	0	2400	100		0		50	112	50
2,4,5-Trichlorophenol	2400	0	2400	100		0		55	105	50
1,1-Biphenyl	2400	0	2300	96		4		20	150	50
2-Chloronaphthalene	2400	0	2200	92		4		50	113	50
2-Nitroaniline	2400	0	2000	83		6		52	110	50
Dimethylphthalate	2400	0	2200	92		0		45	122	50
Acenaphthylene	2400	0	2100	88		0		52	107	50
2,6-Dinitrotoluene	2400	0	2300	96		4		49	116	50
3-Nitroaniline	2400	0	1700	71		0		27	88	50
Acenaphthene	2400	0	2300	96		4		65	100	50
2,4-Dinitrophenol	4800	0	1500	31		48		26	131	50
4-Nitrophenol	4800	0	3000	62		0		45	95	50
Dibenzofuran	2400	0	2300	96		0		52	113	50
2,4-Dinitrotoluene	2400	0	2200	92		10		56	104	50
Diethylphthalate	2400	0	2200	92		0		49	115	50
4-Chlorophenyl-phenylether	2400	0	2300	96		0		37	127	50
Fluorene	2400	0	2300	96		0		47	117	50
4-Nitroaniline	2400	0	2000	83		15		41	115	50
4,6-Dinitro-2-methylphenol	2400	0	1100	46		49		40	105	50
N-Nitrosodiphenylamine	2400	0	2400	100		0		20	150	50

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

G No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: S3567-12MSD	**Client Sample ID:**		**S3567-12MSD**							
4-Bromophenyl-phenylether	2400	0	2400	100		0		53	113	50
Hexachlorobenzene	2400	0	2400	100		0		48	118	50
Atrazine	2400	0	2300	96		0		37	122	50
Pentachlorophenol	4800	0	5600	113		7		20	150	50
Phenanthrene	2400	84	2400	96		0		20	150	50
Anthracene	2400	0	2300	96		0		54	108	50
Carbazole	2400	0	2400	100		0		54	117	50
Di-n-butylphthalate	2400	0	2500	104		0		52	112	50
Fluoranthene	2400	0	2300	96		4		55	105	50
Pyrene	2400	0	2500	104		0		20	150	50
Butylbenzylphthalate	2400	0	2400	100		4		55	120	50
3,3-Dichlorobenzidine	2400	0	1900	79		0		31	111	50
Benzo(a)anthracene	2400	0	2400	100		4		60	100	50
Chrysene	2400	0	2200	92		0		51	115	50
bis(2-Ethylhexyl)phthalate	2400	120	2500	99		0		54	124	50
Di-n-octyl phthalate	2400	0	2200	92		4		53	122	50
Benzo(b)fluoranthene	2400	0	2900	121		19		42	126	50
Benzo(k)fluoranthene	2400	0	2200	92		4		43	125	50
Benzo(a)pyrene	2400	0	2100	88		6		58	102	50
Indeno(1,2,3-cd)pyrene	2400	0	720	30	*	29		42	124	50
Dibenz(a,h)anthracene	2400	0	1200	50		8		41	130	50
Benzo(g,h,i)perylene	2400	0	1000	42		9		39	130	50

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

Job No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: S3409-03MS	**Client Sample ID:**		**SB-314-8DUPMS**							
Phenol	2200	0	2000	91				20	150	
bis(2-Chloroethyl)ether	2200	0	1500	68				37	114	
2-Chlorophenol	2200	0	1900	86				52	107	
2-Methylphenol	2200	0	1900	86				50	100	
2,2-oxybis(1-Chloropropane)	2200	0	1800	82				44	102	
3+4-Methylphenols	2200	0	1900	86				30	106	
N-Nitroso-di-n-propylamine	2200	0	2000	91				20	150	
Hexachloroethane	2200	0	1600	73				43	101	
Nitrobenzene	2200	0	1900	86				50	109	
Isophorone	2200	0	1900	86				48	111	
2-Nitrophenol	2200	0	1900	86				52	116	
2,4-Dimethylphenol	2200	0	2000	91				47	109	
bis(2-Chloroethoxy)methane	2200	0	1900	86				51	111	
2,4-Dichlorophenol	2200	0	2100	95				55	109	
Naphthalene	2200	0	1900	86				34	120	
4-Chloroaniline	2200	0	2000	91				15	92	
Hexachlorobutadiene	2200	0	2000	91				20	150	
4-Chloro-3-methylphenol	2200	0	2100	95				60	100	
2-Methylnaphthalene	2200	0	2100	95				49	115	
Hexachlorocyclopentadiene	4400	0	3200	73				20	107	
2,4,6-Trichlorophenol	2200	0	2400	109				50	112	
2,4,5-Trichlorophenol	2200	0	2300	105				55	105	
1,1-Biphenyl	2200	0	2300	105				20	150	
2-Chloronaphthalene	2200	0	2200	100				50	113	
2-Nitroaniline	2200	0	2100	95				52	110	
Dimethylphthalate	2200	0	2300	105				45	122	
Acenaphthylene	2200	0	2200	100				52	107	
2,6-Dinitrotoluene	2200	0	2300	105				49	116	
3-Nitroaniline	2200	0	2100	95	*			27	88	
Acenaphthene	2200	0	2300	105	*			65	100	
2,4-Dinitrophenol	4400	0	2100	48				26	131	
4-Nitrophenol	4400	0	2900	66				45	95	
Dibenzofuran	2200	0	2300	105				52	113	
2,4-Dinitrotoluene	2200	0	2300	105	*			56	104	
Diethylphthalate	2200	0	2200	100				49	115	
4-Chlorophenyl-phenylether	2200	0	2300	105				37	127	
Fluorene	2200	0	2300	105				47	117	
4-Nitroaniline	2200	0	2100	95				41	115	
4,6-Dinitro-2-methylphenol	2200	0	1400	64				40	105	
N-Nitrosodiphenylamine	2200	0	2500	114				20	150	

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

G No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: S3409-03MS	**Client Sample ID:**		**SB-314-8DUPMS**							
4-Bromophenyl-phenylether	2200	0	2500	114	*			53	113	
Hexachlorobenzene	2200	0	2400	109				48	118	
Atrazine	2200	0	2500	114				37	122	
Pentachlorophenol	4400	0	5200	118				20	150	
Phenanthrene	2200	0	2500	114				20	150	
Anthracene	2200	0	2400	109	*			54	108	
Carbazole	2200	0	2400	109				54	117	
Di-n-butylphthalate	2200	0	2400	109				52	112	
Fluoranthene	2200	0	2400	109	*			55	105	
Pyrene	2200	0	2400	109				20	150	
Butylbenzylphthalate	2200	0	2400	109				55	120	
3,3-Dichlorobenzidine	2200	0	2200	100				31	111	
Benzo(a)anthracene	2200	0	2500	114	*			60	100	
Chrysene	2200	0	2300	105				51	115	
bis(2-Ethylhexyl)phthalate	2200	0	2400	109				54	124	
Di-n-octyl phthalate	2200	0	2300	105				53	122	
Benzo(b)fluoranthene	2200	0	2300	105				42	126	
Benzo(k)fluoranthene	2200	0	2100	95				43	125	
Benzo(a)pyrene	2200	0	2100	95				58	102	
Indeno(1,2,3-cd)pyrene	2200	0	1900	86				42	124	
Dibenz(a,h)anthracene	2200	0	1900	86				41	130	
Benzo(g,h,i)perylene	2200	0	1600	73				39	130	

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: S3409-03MSD	**Client Sample ID:**		**SB-314-8DUPMSD**							
Phenol	2200	0	2100	95		4		20	150	50
bis(2-Chloroethyl)ether	2200	0	1700	77		12		37	114	50
2-Chlorophenol	2200	0	2000	91		6		52	107	50
2-Methylphenol	2200	0	2000	91		6		50	100	50
2,2-oxybis(1-Chloropropane)	2200	0	1900	86		5		44	102	50
3+4-Methylphenols	2200	0	2100	95		10		30	106	50
N-Nitroso-di-n-propylamine	2200	0	2000	91		0		20	150	50
Hexachloroethane	2200	0	1700	77		5		43	101	50
Nitrobenzene	2200	0	1800	82		5		50	109	50
Isophorone	2200	0	1900	86		0		48	111	50
2-Nitrophenol	2200	0	2000	91		6		52	116	50
2,4-Dimethylphenol	2200	0	2100	95		4		47	109	50
bis(2-Chloroethoxy)methane	2200	0	2000	91		6		51	111	50
2,4-Dichlorophenol	2200	0	2100	95		0		55	109	50
Naphthalene	2200	0	2000	91		6		34	120	50
4-Chloroaniline	2200	0	1900	86		6		15	92	50
Hexachlorobutadiene	2200	0	2100	95		4		20	150	50
4-Chloro-3-methylphenol	2200	0	2100	95		0		60	100	50
2-Methylnaphthalene	2200	0	2100	95		0		49	115	50
Hexachlorocyclopentadiene	4400	0	3600	82		12		20	107	50
2,4,6-Trichlorophenol	2200	0	2400	109		0		50	112	50
2,4,5-Trichlorophenol	2200	0	2400	109	*	4		55	105	50
1,1-Biphenyl	2200	0	2400	109		4		20	150	50
2-Chloronaphthalene	2200	0	2200	100		0		50	113	50
2-Nitroaniline	2200	0	2100	95		0		52	110	50
Dimethylphthalate	2200	0	2300	105		0		45	122	50
Acenaphthylene	2200	0	2200	100		0		52	107	50
2,6-Dinitrotoluene	2200	0	2300	105		0		49	116	50
3-Nitroaniline	2200	0	1800	82		15		27	88	50
Acenaphthene	2200	0	2300	105	*	0		65	100	50
2,4-Dinitrophenol	4400	0	2400	55		14		26	131	50
4-Nitrophenol	4400	0	2900	66		0		45	95	50
Dibenzofuran	2200	0	2400	109		4		52	113	50
2,4-Dinitrotoluene	2200	0	2300	105	*	0		56	104	50
Diethylphthalate	2200	0	2200	100		0		49	115	50
4-Chlorophenyl-phenylether	2200	0	2300	105		0		37	127	50
Fluorene	2200	0	2300	105		0		47	117	50
4-Nitroaniline	2200	0	2100	95		0		41	115	50
4,6-Dinitro-2-methylphenol	2200	0	1500	68		6		40	105	50
N-Nitrosodiphenylamine	2200	0	2500	114		0		20	150	50

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

G No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: S3409-03MSD	**Client Sample ID:**		**SB-314-8DUPMSD**							
4-Bromophenyl-phenylether	2200	0	2400	109		4		53	113	50
Hexachlorobenzene	2200	0	2400	109		0		48	118	50
Atrazine	2200	0	2500	114		0		37	122	50
Pentachlorophenol	4400	0	5000	114		3		20	150	50
Phenanthrene	2200	0	2500	114		0		20	150	50
Anthracene	2200	0	2400	109	*	0		54	108	50
Carbazole	2200	0	2300	105		4		54	117	50
Di-n-butylphthalate	2200	0	2300	105		4		52	112	50
Fluoranthene	2200	0	2400	109	*	0		55	105	50
Pyrene	2200	0	2400	109		0		20	150	50
Butylbenzylphthalate	2200	0	2300	105		4		55	120	50
3,3-Dichlorobenzidine	2200	0	2100	95		5		31	111	50
Benzo(a)anthracene	2200	0	2400	109	*	4		60	100	50
Chrysene	2200	0	2400	109		4		51	115	50
bis(2-Ethylhexyl)phthalate	2200	0	2400	109		0		54	124	50
Di-n-octyl phthalate	2200	0	2300	105		0		53	122	50
Benzo(b)fluoranthene	2200	0	2200	100		5		42	126	50
Benzo(k)fluoranthene	2200	0	2200	100		5		43	125	50
Benzo(a)pyrene	2200	0	2100	95		0		58	102	50
Indeno(1,2,3-cd)pyrene	2200	0	1900	86		0		42	124	50
Dibenz(a,h)anthracene	2200	0	1800	82		5		41	130	50
Benzo(g,h,i)perylene	2200	0	1600	73		0		39	130	50

Chemtech Consulting Group

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
PB16274BS	Phenol	1600	1500	94			20	150	
	bis(2-Chloroethyl)ether	1600	1300	81			37	114	
	2-Chlorophenol	1600	1500	94			52	107	
	2-Methylphenol	1600	1400	88			50	100	
	2,2-oxybis(1-Chloropropane)	1600	1400	88			44	102	
	3+4-Methylphenols	1600	1400	88			30	106	
	N-Nitroso-di-n-propylamine	1600	1400	88			20	150	
	Hexachloroethane	1600	1400	88			43	101	
	Nitrobenzene	1600	1300	81			50	109	
	Isophorone	1600	1400	88			48	111	
	2-Nitrophenol	1600	1500	94			52	116	
	2,4-Dimethylphenol	1600	1500	94			47	109	
	bis(2-Chloroethoxy)methane	1600	1400	88			51	111	
	2,4-Dichlorophenol	1600	1500	94			55	109	
	Naphthalene	1600	1500	94			34	120	
	4-Chloroaniline	1600	730	46			15	92	
	Hexachlorobutadiene	1600	1500	94			20	150	
	4-Chloro-3-methylphenol	1600	1500	94			60	100	
	2-Methylnaphthalene	1600	1500	94			49	115	
	Hexachlorocyclopentadiene	3300	3600	109		*	20	107	
	2,4,6-Trichlorophenol	1600	1700	106			50	112	
	2,4,5-Trichlorophenol	1600	1500	94			55	105	
	1,1-Biphenyl	1600	1600	100			20	150	
	2-Chloronaphthalene	1600	1500	94			50	113	
	2-Nitroaniline	1600	1500	94			52	110	
	Dimethylphthalate	1600	1500	94			45	122	
	Acenaphthylene	1600	1500	94			52	107	
	2,6-Dinitrotoluene	1600	1600	100			49	116	
	3-Nitroaniline	1600	810	51			27	88	
	Acenaphthene	1600	1600	100			65	100	
	2,4-Dinitrophenol	3300	2800	85			26	131	
	4-Nitrophenol	3300	1900	58			45	95	
	Dibenzofuran	1600	1600	100			52	113	
	2,4-Dinitrotoluene	1600	1600	100			56	104	
	Diethylphthalate	1600	1300	81			49	115	
	4-Chlorophenyl-phenylether	1600	1600	100			37	127	
	Fluorene	1600	1600	100			47	117	
	4-Nitroaniline	1600	1300	81			41	115	
	4,6-Dinitro-2-methylphenol	1600	1600	100			40	105	
	N-Nitrosodiphenylamine	1600	1400	88			20	150	
	4-Bromophenyl-phenylether	1600	1600	100			53	113	
	Hexachlorobenzene	1600	1600	100			48	118	

Chemtech Consulting Group

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
PB16274BS	Atrazine	1600	1500	94			37	122	
	Pentachlorophenol	3300	3200	97			20	150	
	Phenanthrene	1600	1800	112			20	150	
	Anthracene	1600	1400	88			54	108	
	Carbazole	1600	1500	94			54	117	
	Di-n-butylphthalate	1600	1400	88			52	112	
	Fluoranthene	1600	1500	94			55	105	
	Pyrene	1600	1500	94			20	150	
	Butylbenzylphthalate	1600	1500	94			55	120	
	3,3-Dichlorobenzidine	1600	1000	62			31	111	
	Benzo(a)anthracene	1600	1600	100			60	100	
	Chrysene	1600	1600	100			51	115	
	bis(2-Ethylhexyl)phthalate	1600	1500	94			54	124	
	Di-n-octyl phthalate	1600	1500	94			53	122	
	Benzo(b)fluoranthene	1600	1400	88			42	126	
	Benzo(k)fluoranthene	1600	1400	88			43	125	
	Benzo(a)pyrene	1600	1400	88			58	102	
	Indeno(1,2,3-cd)pyrene	1600	1600	100			42	124	
	Dibenz(a,h)anthracene	1600	1400	88			41	130	
	Benzo(g,h,i)perylene	1600	1400	88			39	130	
PB16346BS	Phenol	1600	1400	88			20	150	
	bis(2-Chloroethyl)ether	1600	1300	81			37	114	
	2-Chlorophenol	1600	1500	94			52	107	
	2-Methylphenol	1600	1400	88			50	100	
	2,2-oxybis(1-Chloropropane)	1600	1400	88			44	102	
	3+4-Methylphenols	1600	1400	88			30	106	
	N-Nitroso-di-n-propylamine	1600	1400	88			20	150	
	Hexachloroethane	1600	1300	81			43	101	
	Nitrobenzene	1600	1300	81			50	109	
	Isophorone	1600	1400	88			48	111	
	2-Nitrophenol	1600	1500	94			52	116	
	2,4-Dimethylphenol	1600	1500	94			47	109	
	bis(2-Chloroethoxy)methane	1600	1400	88			51	111	
	2,4-Dichlorophenol	1600	1500	94			55	109	
	Naphthalene	1600	1500	94			34	120	
	4-Chloroaniline	1600	720	45			15	92	
	Hexachlorobutadiene	1600	1500	94			20	150	
	4-Chloro-3-methylphenol	1600	1500	94			60	100	
	2-Methylnaphthalene	1600	1500	94			49	115	
	Hexachlorocyclopentadiene	3300	3200	97			20	107	
	2,4,6-Trichlorophenol	1600	1700	106			50	112	
	2,4,5-Trichlorophenol	1600	1600	100			55	105	

Chemtech Consulting Group

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: S3409

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
PB16346BS	1,1-Biphenyl	1600	1600	100			20	150	
	2-Chloronaphthalene	1600	1500	94			50	113	
	2-Nitroaniline	1600	1500	94			52	110	
	Dimethylphthalate	1600	1500	94			45	122	
	Acenaphthylene	1600	1500	94			52	107	
	2,6-Dinitrotoluene	1600	1500	94			49	116	
	3-Nitroaniline	1600	780	49			27	88	
	Acenaphthene	1600	1600	100			65	100	
	2,4-Dinitrophenol	3300	3100	94			26	131	
	4-Nitrophenol	3300	2000	61			45	95	
	Dibenzofuran	1600	1600	100			52	113	
	2,4-Dinitrotoluene	1600	1600	100			56	104	
	Diethylphthalate	1600	1400	88			49	115	
	4-Chlorophenyl-phenylether	1600	1600	100			37	127	
	Fluorene	1600	1600	100			47	117	
	4-Nitroaniline	1600	1100	69			41	115	
	4,6-Dinitro-2-methylphenol	1600	1600	100			40	105	
	N-Nitrosodiphenylamine	1600	1600	100			20	150	
	4-Bromophenyl-phenylether	1600	1600	100			53	113	
	Hexachlorobenzene	1600	1600	100			48	118	
	Atrazine	1600	1600	100			37	122	
	Pentachlorophenol	3300	3100	94			20	150	
	Phenanthrene	1600	1700	106			20	150	
	Anthracene	1600	1500	94			54	108	
	Carbazole	1600	1400	88			54	117	
	Di-n-butylphthalate	1600	1500	94			52	112	
	Fluoranthene	1600	1500	94			55	105	
	Pyrene	1600	1500	94			20	150	
	Butylbenzylphthalate	1600	1500	94			55	120	
	3,3-Dichlorobenzidine	1600	1100	69			31	111	
	Benzo(a)anthracene	1600	1600	100			60	100	
	Chrysene	1600	1500	94			51	115	
	bis(2-Ethylhexyl)phthalate	1600	1500	94			54	124	
	Di-n-octyl phthalate	1600	1500	94			53	122	
	Benzo(b)fluoranthene	1600	1700	106			42	126	
	Benzo(k)fluoranthene	1600	1400	88			43	125	
	Benzo(a)pyrene	1600	1500	94			58	102	
	Indeno(1,2,3-cd)pyrene	1600	1500	94			42	124	
	Dibenz(a,h)anthracene	1600	1500	94			41	130	
	Benzo(g,h,i)perylene	1600	1500	94			39	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: BE012657.D Lab Sample ID: PB16274B

Instrument ID: BNAE Date Extracted: 7/14/2004

Matrix: (soil/water) SOIL Date Analyzed: 7/15/2004

Level: (low/med) LOW Time Analyzed: 18:06

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS01	PB16274BS	BE012658.D	7/15/2004
02	SB-314-8DUP	S3409-03	BE012659.D	7/15/2004
03	SB-324-8	S3409-13	BE012660.D	7/15/2004
04	SB-044-8	S3409-05	BE012661.D	7/15/2004
05	SB-348-12DUP	S3409-12	BE012662.D	7/15/2004
06	SB-314-8	S3409-02	BE012664.D	7/15/2004
07	SB-0412-16	S3409-06	BE012665.D	7/15/2004
08	SB-074-8	S3409-08	BE012666.D	7/15/2004
09	SB-348-12	S3409-11	BE012667.D	7/15/2004
10	SB-334-8	S3409-09	BE012668.D	7/15/2004
11	SB-290-4	S3409-10	BE012669.D	7/15/2004
12	SB-184-8	S3409-07	BE012671.D	7/15/2004
13	SB-204-8	S3409-14	BE012672.D	7/15/2004
14	SB-034-8	S3409-04	BE012673.D	7/16/2004
15	SB-314-8DUPMS	S3409-03MS	BE012732.D	7/17/2004
16	SB-314-8DUPMSD	S3409-03MSD	BE012733.D	7/17/2004

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK02

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: BE012796.D Lab Sample ID: PB16346B

Instrument ID: BNAE Date Extracted: 7/17/2004

Matrix: (soil/water) SOIL Date Analyzed: 7/19/2004

Level: (low/med) LOW Time Analyzed: 17:39

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SB-244-8	S3409-15	BE012802.D	7/19/2004
02	SB-264-8	S3409-16	BE012833.D	7/20/2004
03	S3567-11MS	S3567-11MS	BE012847.D	7/20/2004
04	SLCS02	PB16346BS	BE012851.D	7/20/2004
05	S3567-12MSD	S3567-12MSD	BE012960.D	7/22/2004

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: BE012508.D DFTPP Injection Date: 7/12/2004

Instrument ID: BNAE DFTPP Injection Time: 14:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	54.5
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	40.0 - 60.0% of mass 198	59.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	29.8
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	14.0
442	Greater than 40% of mass 198	91.6
443	17.0 - 23.0% of mass 442	17.9(19.5) 2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	80 ng BNA ICC	BE012509.D	7/12/2004	15:24
02	SSTD160	160 ng BNA ICC	BE012510.D	7/12/2004	15:47
03	SSTD020	20 ng BNA ICC	BE012511.D	7/12/2004	16:11
04	SSTD120	120 ng BNA ICC	BE012512.D	7/12/2004	16:35
05	SSTD050	50 ng BNA ICC	BE012513.D	7/12/2004	16:59

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: BE012654.D DFTPP Injection Date: 7/15/2004

Instrument ID: BNAE DFTPP Injection Time: 16:42

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	59.1
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	40.0 - 60.0% of mass 198	58.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	29.1
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	8.9
442	Greater than 40% of mass 198	66.2
443	17.0 - 23.0% of mass 442	12.6(19.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	80 ng BNA CCC	BE012655.D	7/15/2004	17:06
02	SBLK01	PB16274B	BE012657.D	7/15/2004	18:06
03	SLCS01	PB16274BS	BE012658.D	7/15/2004	18:30
04	SB-314-8DUP	S3409-03	BE012659.D	7/15/2004	18:54
05	SB-324-8	S3409-13	BE012660.D	7/15/2004	19:18
06	SB-044-8	S3409-05	BE012661.D	7/15/2004	19:42
07	SB-348-12DUP	S3409-12	BE012662.D	7/15/2004	20:03
08	SB-314-8	S3409-02	BE012664.D	7/15/2004	20:50
09	SB-0412-16	S3409-06	BE012665.D	7/15/2004	21:14
10	SB-074-8	S3409-08	BE012666.D	7/15/2004	21:38
11	SB-348-12	S3409-11	BE012667.D	7/15/2004	22:02
12	SB-334-8	S3409-09	BE012668.D	7/15/2004	22:23
13	SB-290-4	S3409-10	BE012669.D	7/15/2004	22:47
14	SB-184-8	S3409-07	BE012671.D	7/15/2004	23:34
15	SB-204-8	S3409-14	BE012672.D	7/15/2004	23:58
16	SB-034-8	S3409-04	BE012673.D	7/16/2004	00:22

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: BE012708.D DFTPP Injection Date: 7/17/2004

Instrument ID: BNAE DFTPP Injection Time: 01:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	51.0
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	40.0 - 60.0% of mass 198	55.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	29.1
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	10.2
442	Greater than 40% of mass 198	75.5
443	17.0 - 23.0% of mass 442	14.2(18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD120	120 ng BNA CCC	BE012709.D	7/17/2004	01:21
02	SB-314-8DUPMS	S3409-03MS	BE012732.D	7/17/2004	10:24
03	SB-314-8DUPMSD	S3409-03MSD	BE012733.D	7/17/2004	10:48

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: BE012794.D DFTPP Injection Date: 7/19/2004

Instrument ID: BNAE DFTPP Injection Time: 16:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.7
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	54.2
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	40.0 - 60.0% of mass 198	56.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	29.4
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	14.3
442	Greater than 40% of mass 198	97.5
443	17.0 - 23.0% of mass 442	19.2(19.7) 2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	50 ng BNA CCC	BE012795.D	7/19/2004	17:15
02	SBLK02	PB16346B	BE012796.D	7/19/2004	17:39
03	SB-244-8	S3409-15	BE012802.D	7/19/2004	19:59

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: BE012821.D DFTPP Injection Date: 7/20/2004

Instrument ID: BNAE DFTPP Injection Time: 03:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	56.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	59.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	27.5
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	11.9
442	Greater than 40% of mass 198	76.5
443	17.0 - 23.0% of mass 442	14.2(18.6)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD120	120 ng BNA CCC	BE012822.D	7/20/2004	03:50
02	SB-264-8	S3409-16	BE012833.D	7/20/2004	08:07
03	S3567-11MS	S3567-11MS	BE012847.D	7/20/2004	13:36

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: BE012849.D DFTPP Injection Date: 7/20/2004

Instrument ID: BNAE DFTPP Injection Time: 16:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	60.4
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	40.0 - 60.0% of mass 198	59.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	21.2
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.4
442	Greater than 40% of mass 198	65.5
443	17.0 - 23.0% of mass 442	13.5(20.7) 2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	50 ng BNA CCC	BE012850.D	7/20/2004	16:45
02	SLCS02	PB16346BS	BE012851.D	7/20/2004	17:07

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

Lab File ID: BE012933.D DFTPP Injection Date: 7/22/2004

Instrument ID: BNAE DFTPP Injection Time: 03:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	52.2
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	40.0 - 60.0% of mass 198	58.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	30.6
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	12.5
442	Greater than 40% of mass 198	79.0
443	17.0 - 23.0% of mass 442	15.3 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD120	120 ng BNA CCC	BE012934.D	7/22/2004	03:44
02	S3567-12MSD	S3567-12MSD	BE012960.D	7/22/2004	13:52

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

EPA Sample No.: SSTD120 Date Analyzed: 7/17/2004

Lab File ID: BE012709.D Time Analyzed: 01:21

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	262984	3.46	911619	4.23	515336	5.33
	UPPER LIMIT	525968	3.96	1823238	4.73	1030672	5.83
	LOWER LIMIT	131492	2.96	455810	3.73	257668	4.83
	EPA SAMPLE NO.						
16	SB-314-8DUPMS	224116	3.46	796806	4.24	430353	5.33
17	SB-314-8DUPMSD	240068	3.46	855008	4.23	456018	5.33

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG No.: S3409

EPA Sample No.: SSTD120 Date Analyzed: 7/17/2004

Lab File ID: BE012709.D Time Analyzed: 01:21

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	937834	6.31	957831	8.35	728642	9.93
	UPPER LIMIT	1875668	6.81	1915662	8.85	1457284	10.43
	LOWER LIMIT	468917	5.81	478916	7.85	364321	9.43
	EPA SAMPLE NO.						
16	SB-314-8DUPMS	748570	6.31	766769	8.40	666950	9.99
17	SB-314-8DUPMSD	796456	6.31	809895	8.36	707459	9.95

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

EPA Sample No.: SSTD120 Date Analyzed: 7/20/2004

Lab File ID: BE012822.D Time Analyzed: 03:50

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	262454	3.45	910098	4.22	515309	5.32
	UPPER LIMIT	524908	3.95	1820196	4.72	1030618	5.82
	LOWER LIMIT	131227	2.95	455049	3.72	257655	4.82
	EPA SAMPLE NO.						
20	SB-264-8	210769	3.45	770083	4.23	459675	5.32
21	S3567-11MS	307678	3.45	1005221	4.22	505346	5.32

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG No.: S3409

EPA Sample No.: SSTD120 Date Analyzed: 7/20/2004

Lab File ID: BE012822.D Time Analyzed: 03:50

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	848408	6.29	1021367	8.31	728481	9.87
	UPPER LIMIT	1696816	6.79	2042734	8.81	1456962	10.37
	LOWER LIMIT	424204	5.79	510684	7.81	364241	9.37
	EPA SAMPLE NO.		✓		✓		✓
20	SB-264-8	852668	6.31	835095	8.41	793438	10.00
21	S3567-11MS	882908	6.29	784408	8.32	484253	9.89

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

EPA Sample No.: SSTD120 Date Analyzed: 7/22/2004

Lab File ID: BE012934.D Time Analyzed: 03:44

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	218565	3.43	741548	4.21	425213	5.30
UPPER LIMIT	437130	3.93	1483096	4.71	850426	5.80
LOWER LIMIT	109283	2.93	370774	3.71	212607	4.80
EPA SAMPLE NO.						
23 S3567-12MSD	296997	3.43	970084	4.21	481753	5.30

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG No.: S3409

EPA Sample No.: SSTD120 Date Analyzed: 7/22/2004

Lab File ID: BE012934.D Time Analyzed: 03:44

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	777069	6.26	839347	8.20	572930	9.74
UPPER LIMIT	1554138	6.76	1678694	8.70	1145860	10.24
LOWER LIMIT	388535	5.76	419674	7.70	286465	9.24
EPA SAMPLE NO.						
23 S3567-12MSD	843903	6.28	776513	8.32	395651	9.89

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

EPA Sample No.: SSTD050 Date Analyzed: 7/19/2004

Lab File ID: BE012795.D Time Analyzed: 17:15

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	233898	3.45	863146	4.22	487052	5.32
	UPPER LIMIT	467796	3.95	1726292	4.72	974104	5.82
	LOWER LIMIT	116949	2.95	431573	3.72	243526	4.82
	EPA SAMPLE NO.						
18	SBLK02	226221	3.45	776644	4.23	472425	5.32
19	SB-244-8	214388	3.45	786615	4.23	468241	5.32

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG No.: S3409

EPA Sample No.: SSTD050 Date Analyzed: 7/19/2004

Lab File ID: BE012795.D Time Analyzed: 17:15

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	893354	6.29	908330	8.28	740072	9.84
	UPPER LIMIT	1786708	6.79	1816660	8.78	1480144	10.34
	LOWER LIMIT	446677	5.79	454165	7.78	370036	9.34
	EPA SAMPLE NO.						
18	SBLK02	852222	6.28	872153	8.27	729195	9.82
19	SB-244-8	848229	6.29	767766	8.34	805619	9.91

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

EPA Sample No.: SSTD050 Date Analyzed: 7/20/2004

Lab File ID: BE012850.D Time Analyzed: 16:45

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	241779	3.44	900829	4.22	494118	5.31
UPPER LIMIT	483558	3.94	1801658	4.72	988236	5.81
LOWER LIMIT	120890	2.94	450415	3.72	247059	4.81
EPA SAMPLE NO.		✓		✓		✓
22 SLCS02	261325	3.44	899560	4.21	487437	5.31

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG No.: S3409

EPA Sample No.: SSTD050 Date Analyzed: 7/20/2004

Lab File ID: BE012850.D Time Analyzed: 16:45

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	894552	6.28	917914	8.29	723856	9.85
UPPER LIMIT	1789104	6.78	1835828	8.79	1447712	10.35
LOWER LIMIT	447276	5.78	458957	7.79	361928	9.35
EPA SAMPLE NO.						
22 SLCS02	879459	6.28	905553	8.26	730163	9.81

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG NO.: S3409

EPA Sample No.: SSTD080 Date Analyzed: 7/15/2004

Lab File ID: BE012655.D Time Analyzed: 17:06

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	298549	3.47	1061467	4.24	583395	5.34
	UPPER LIMIT	597098	3.97	2122934	4.74	1166790	5.84
	LOWER LIMIT	149275	2.97	530734	3.74	291698	4.84
	EPA SAMPLE NO.						
01	SBLK01	252297	3.47	935217	4.25	535075	5.35
02	SLCS01	290016	3.47	1047761	4.25	555523	5.34
03	SB-314-8DUP	243917	3.47	869437	4.25	507809	5.34
04	SB-324-8	253557	3.47	918540	4.25	521099	5.34
05	SB-044-8	242766	3.47	880384	4.25	509795	5.34
06	SB-348-12DUP	242438	3.47	895375	4.25	510002	5.34
07	SB-314-8	252504	3.47	921262	4.25	527162	5.34
08	SB-0412-16	235908	3.47	877443	4.25	489320	5.34
09	SB-074-8	229376	3.47	871535	4.25	496585	5.34
10	SB-348-12	237967	3.47	865524	4.25	497566	5.34
11	SB-334-8	243386	3.47	878702	4.25	508414	5.34
12	SB-290-4	223491	3.47	933341	4.25	533426	5.34
13	SB-184-8	223393	3.47	929601	4.25	524717	5.34
14	SB-204-8	212158	3.47	924537	4.25	541884	5.34
15	SB-034-8	201437	3.48	875667	4.25	503447	5.34

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3409 SAS No.: S3409 SDG No.: S3409

EPA Sample No.: SSTD080 Date Analyzed: 7/15/2004

Lab File ID: BE012655.D Time Analyzed: 17:06

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1058357	6.33	1076608	8.42	888030	10.03
	UPPER LIMIT	2116714	6.83	2153216	8.92	1776060	10.53
	LOWER LIMIT	529179	5.83	538304	7.92	444015	9.53
	EPA SAMPLE NO.						
01	SBLK01	917403	6.35	873920	8.48	874014	10.09
02	SLCS01	991138	6.32	1005169	8.32	938771	9.89
03	SB-314-8DUP	878680	6.33	831610	8.42	848418	10.02
04	SB-324-8	902777	6.32	874617	8.38	889886	9.97
05	SB-044-8	886443	6.31	835485	8.33	861742	9.91
06	SB-348-12DUP	895110	6.31	843130	8.29	862936	9.86
07	SB-314-8	916380	6.32	875227	8.36	907486	9.95
08	SB-0412-16	857754	6.31	818572	8.31	842037	9.88
09	SB-074-8	839889	6.30	774780	8.26	794605	9.83
10	SB-348-12	863902	6.32	825171	8.40	840228	10.00
11	SB-334-8	893872	6.31	840687	8.34	864744	9.92
12	SB-290-4	922194	6.31	924382	8.31	938257	9.89
13	SB-184-8	924570	6.32	930198	8.40	965736	10.00
14	SB-204-8	986433	6.32	1021652	8.36	1002760	9.94
15	SB-034-8	894054	6.31	900056	8.30	915785	9.88

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

DATA USABILITY SUMMARY REPORT

for

THE CHAZEN COMPANIES

20 Gurley Avenue

Troy, NY 12182

FORMER STILLWATER BOILER HOUSE
ID#B-001975-5
SDG: S3409
Sampled 6/29/04

SOIL SAMPLES for PCB

SB13 4-8 (S3409-01)

DATA ASSESSMENT

A PCB data package containing analytical results for one soil sample was received from The Chazen Companies on 21Sep04. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Stillwater Boiler House site (ID#B-00197-5), were identified by Chain of Custody documents and traceable through the work of CHEMTECH, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8082, addressed Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 06/2000, and the cited method. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-24, Rev 1, June 1999, Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev 2, Dec 1996) was used as a technical reference.

The results reported from SB13 4-8 have been qualified as estimations because the holding time limitation prior to extraction was grossly exceeded.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results that should be interpreted as estimations have been flagged "J" or "UJ". A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 10/18/04

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved, or are not analyzed within established holding times, may no longer be considered representative. Holding times are calculated from the time of sample receipt (VTSR). Samples must remain chilled to 4°C from the time of collection. Extractions must begin within 5 days of receipt. Analyses must be completed within 40 days of extraction. Each sample delivery group, containing up to 20 samples, should include a field duplicate, a matrix spike, matrix spike duplicate, and a rinsate blank.

This sample delivery group contained one soil sample. The sample was collected from the Former Stillwater Boiler House site on 29Jun04 and shipped to the laboratory, via FedEx, on 01Jul04. The shipment arrived, intact, the following morning.

It is noted that the laboratory provided no documentation to indicate that the samples were properly chilled at the time of receipt. Although data has not been qualified due to this omission, it should be noted that such errors seriously limit the defensibility of reported data.

SB13 4-8 was held in the laboratory for 12 days prior to being extracted on 14Jul04. The sample was analyzed on 28Jul04. The sample was diluted and reanalyzed on 29Jul04 to obtain an Aroclor 1260 measurement within the range of calibration. All data reported from SB13 4-8 has been qualified as an estimation because the holding time prior to extraction was grossly exceeded.

AR1260 was detected in SB13 4-8 at a concentration that exceeded the range of calibration. The sample was reanalyzed on 29Jul04 to obtain a result within the calibration range. The AR1260 concentrations obtained from the analytical column and the verification column differed by only 4% during the original analysis. The chromatographic peak pattern provided a conclusive identification on both columns. Although the diluted sample produced results from both columns that differed by 27%, the concentrations reported from the original and diluted sample were in close agreement.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank. Any sample concentration less than 5 times the level determined in a blank must be qualified.

One method blank was processed with this group of samples. This blank demonstrated acceptable chromatography and was free of targeted analyte contamination.

CALIBRATION

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, Quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration standards verify instrument stability.

The initial instrument calibration was performed 27Jul04. Standards of 50, 250, 500, 750 and 1000 µg/l were included for five congeners each of AR1016 and AR1260. A single mid-range standard was run for the remaining Aroclors. Each congener curve demonstrated an acceptable degree of linearity on both the analytical column and the verification column.

Calibration verifications bracketed the analysis of program samples. Each CCV of AR1016 and AR1260 demonstrated an acceptable level of instrument stability.

SURROGATES

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared. The tetrachloro-m-xylene and decachlorobipheyl additions to each program sample produced acceptable recoveries, between 97% and 122%. Every recovery was well within the ASP range of acceptance, 30%-150%.

MATRIX SPIKES / MATRIX SPIKE DUPLICATES / MATRIX SPIKED BLANKS

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

A sample from an unrelated delivery group was selected for matrix spiking. Aroclors 1016 and 1260 were added to two portions of this sample. Recoveries between 54% and 77% were reported. Although the lowest recovery fell outside the laboratory's range of acceptance, data has been left unqualified. This performance, alone, does not warrant data qualifications.

A spiked blank (LCS) was also extracted and analyzed with this group of samples. This LCS produced acceptable recoveries of AR1016 and AR1260 (87%-85%).

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Field split duplicates were not included in this group of samples.

SUMMARY OF QUALIFIED DATA

Former Stillwater Boiler House site

Sampled 29Jun04

	HOLD TIME
SB13 4-8 (S3409-01)	ALL J/UJ

PCB

SDG No.: S3409

Client: Chazen Companies

Sample ID: S3409-01 Client ID: SB-134-8

Date Collected:	6/29/2004	Date Received:	7/2/2004
Date Analyzed:	7/28/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	3PS0130.D
Dilution:	1	Instrument ID:	ECD3
Analytical Method:	8082	Analytical Run ID:	3PS072704
% Moisture:	17.0	Associated Blank:	PB16220B
Sample Wt/Vol:	15	Extract Vol:	5000
Injection Vol:	1		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
AROCLOR 1016	12674-11-2	< 6.2	~~U~~	20	6.2	ug/Kg
AROCLOR 1221	11104-28-2	< 4.2	~~U~~	20	4.2	ug/Kg
AROCLOR 1232	11141-16-5	< 2.9	~~U~~ UJ	20	2.9	ug/Kg
AROCLOR 1242	53469-21-9	< 3.7	~~U~~	20	3.7	ug/Kg
AROCLOR 1248	12672-29-6	< 4.3	~~U~~	20	4.3	ug/Kg
AROCLOR 1254	11097-69-1	< 1.6	~~U~~	20	1.6	ug/Kg
AROCLOR 1260	11096-82-5	480 ~~460~~	DJ ~~P~~	20	3.5	ug/Kg
SURROGATES						
Tetrachloro-m-xylene	877-09-8	20.49	102 %	50 - 132		SPK: 20
Decachlorobiphenyl	2051-24-3	19.44	97 %	58 - 125		SPK: 20

JB

PCB

SDG No.: S3409

Client: Chazen Companies

Sample ID:	S3409-01DL	Client ID:	SB-134-8DL
Date Collected:	6/29/2004	Date Received:	7/2/2004
Date Analyzed:	7/29/2004	Matrix:	SOIL
Date Extracted:	7/14/2004	File ID:	3PS015LD
Dilution:	10	Instrument ID:	ECD3
Analytical Method:	8082	Analytical Run ID:	3PS072704
% Moisture:	17.0	Associated Blank:	PB16220B
Sample Wt/Vol:	15	Extract Vol:	5000
Injection Vol:	1		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
AROCLOR 1016	12674-11-2	< 62	UD	200	62	ug/Kg
AROCLOR 1221	11104-28-2	< 42	UD	200	42	ug/Kg
AROCLOR 1232	11141-16-5	< 29	UD	200	29	ug/Kg
AROCLOR 1242	53469-21-9	< 37	UD	200	37	ug/Kg
AROCLOR 1248	12672-29-6	< 43	UD	200	43	ug/Kg
AROCLOR 1254	11097-69-1	< 16	UD	200	16	ug/Kg
AROCLOR 1260	11096-82-5	480	DP	200	35	ug/Kg
SURROGATES						
Tetrachloro-m-xylene	877-09-8	24.5	102 %	50 - 132		SPK: 20
Decachlorobiphenyl	2051-24-3	22.6	113 %	58 - 125		SPK: 20

see initial analysis

Surrogate Summary
SW-846

SDG No.: S3409
Client: Chazen Companies

Analytical Method: EPA SW-846 8082

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
PB16220B	PB16220B	Tetrachloro-m-xylene	20	12.71	64		50.00	132.00
		Decachlorobiphenyl	20	14.63	73		58.00	125.00
PB16220BS	PB16220BS	Tetrachloro-m-xylene	20	15.7	78		50.00	132.00
		Decachlorobiphenyl	20	17.58	88		58.00	125.00
S3409-01	SB-134-8	Tetrachloro-m-xylene	20	20.49	102	✓	50.00	132.00
		Decachlorobiphenyl	20	19.44	97	✓	58.00	125.00
S3417-07MS	S3417-07MS	Tetrachloro-m-xylene	20	13.76	69		50.00	132.00
		Decachlorobiphenyl	20	15.8	79		58.00	125.00
S3417-07MSD	S3417-07MSD	Tetrachloro-m-xylene	20	13.29	66		50.00	132.00
		Decachlorobiphenyl	20	15.71	79		58.00	125.00
S3409-01DL	SB-134-8DL	Tetrachloro-m-xylene	20	24.5	122	✓	50.00	132.00
		Decachlorobiphenyl	20	22.6	113	✓	58.00	125.00

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: S3409
Client: Chazen Companies

Analytical Method: EPA SW-846 8082

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**S3417-07MS**									
S3417-07MS	AROCLOR 1016	65.6	14.36	50	54		*	55	128	
	AROCLOR 1260	65.6	0	49	75			58	140	
Client Sample ID:	**S3417-07MSD**									
S3417-07MSD	AROCLOR 1016	66.4	14.36	53	58	7		55	128	20
	AROCLOR 1260	66.4	0	51	77	3		58	140	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: S3409
Client: Chazen Companies

Analytical Method: EPA SW-846 8082

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
PB16220BS	AROCLOR 1016	65.6	57	87			70	130	
	AROCLOR 1260	65.6	56	85			70	130	

4C

PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB16220B

Lab Name: Chemtech Contract: Chazen Companies

Lab Code: CTECH Case No.: S3409 SAS No.: S3409 SDG No.: S3409

Lab Sample ID: PB16220B Lab File ID: 3PS0128.D

Matrix: (soil/water) SOIL Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 7/14/2004

Date Analyzed (1): 7/28/2004 Date Analyzed (2): 7/28/2004

Time Analyzed (1): 18:24 Time Analyzed (2): 18:24

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): MTX-5 ID: 0.53 (mm) GC Column (2): MTX-1701 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB16220BS	PB16220BS	3PS0129.D	7/28/2004	7/28/2004
SB-134-8	S3409-01	3PS0130.D	7/28/2004	7/28/2004
S3417-07MS	S3417-07MS	3PS0132.D	7/28/2004	7/28/2004
S3417-07MSD	S3417-07MSD	3PS0133.D	7/28/2004	7/28/2004
SB-134-8DL	S3409-01DL	3PS0151.D	7/29/2004	7/29/2004

COMMENTS:

DATAVAL, INC.
Environmental Data Validation

JAMES B. BALDWIN, JR.
Phone/Fax (607) 642-5460

518
~~520~~ Hooper Road, PMB 283
Endwell, NY 13760

DATA USABILITY SUMMARY REPORT

for

THE CHAZEN COMPANIES

20 Gurley Avenue

Troy, NY 12182

FORMER STILLWATER BOILER HOUSE
ID#B-001975-5
SDG:S3529
Sampled 7/8/04

AQUEOUS SAMPLES for METALS

MW-1	(S3529-01)
MW-6	(S3529-02)
MW-2	(S3529-03)
MW-3	(S3529-04)
MW-4	(S3529-05)
MW-5	(S3529-06)
MW-3DUP	(S3529-08)

DATA ASSESSMENT

An inorganics data package containing analytical results for seven aqueous samples was received from The Chazen Companies on 21Sep04. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Stillwater Boiler House site (ID#B-00197-5), were identified by Chain of Custody documents and traceable through the work of CHEMTECH, the laboratory contracted for analysis. Analyses were performed using SW-846 methods 6010 and 7471. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 06/2000. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOW HW-2, Rev. 11, Jan. 1992, Evaluation of Metals Data for the Contract Laboratory Program) was used as a technical reference.

The selenium concentrations from MW-6 and MW-2, and the thallium results from each sample have been qualified as estimations due to poor CRDL performance.

Sodium and potassium results have been qualified as estimations due to poor serial dilution results.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Reported concentrations that are felt to provide a usable estimation of the conditions being measured have been flagged "J". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 10/18/04

SAMPLE HISTORY

Sample holding times are calculated between the time of laboratory receipt (VTSR) and the time of analysis. Mercury samples must be analyzed within 26 days of receipt; the remaining metals within 180 days. Each sample delivery group, containing up to 20 samples, should include a field duplicate, a laboratory split duplicate, a matrix spiked sample, and a rinsate blank.

This sample delivery group contained seven aqueous samples. The samples were collected from the Former Stillwater Boiler House site 08Jul04. They were shipped to the laboratory, via FedEx on the day of collection. They were received, intact, on 10Jul04.

Sample preservation was not documented on the Chain of Custody. However, checks made at the time of analysis indicated that each sample aliquot had been stabilized at the proper pH.

The samples were digested for ICP metals and mercury on 15Jul04. Mercury determinations were completed on 15Jul04. ICP analyses were finished on 16Jul04. Program holding time limitations were satisfied.

CALIBRATIONS

Calibration curves are constructed, using certified materials, to define the linear range of each analytical instrument. Beyond this range, measurements cannot be made with confidence. The calibration curve is immediately tested by analyzing an initial calibration verification standard (ICV). Continuing verifications (CCV) must bracket each group of up to ten samples. ICV and CCV recoveries must meet established criteria.

ICP calibrations were performed with a blank and three standards. Calibrations for mercury were performed with a blank and five standards. The lowest mercury standard equaled CRDL. The mercury calibration curve demonstrated an acceptable degree of linearity.

Each instrument calibration was immediately verified by the analysis of an ICV standard. Continuing calibration checks were made following each group of 10 samples. Each calibration check that was used to bracket samples from this program satisfied the program acceptance criteria.

CONTRACT REQUIED DETECTION LIMIT STANARDS (CRDL)

To verify instrument linearity near CRDL, an ICP standard at a

concentration of twice CRDL (CRI) is analyzed at the beginning and end of each analytical sequence. A standard equaling CRDL (CRA) must be included in each atomic adsorption sequence. CRDL standards must produce a recovery between 80% and 120%.

The CRDL results reported by the laboratory included unacceptable recoveries of selenium (124%) and thallium (76%). Based on these indications of bias, the selenium concentrations reported from MW-2 and MW-6, and the negative thallium result from each program sample has been qualified as an estimation.

It is noted that the laboratory did not analyze CRDL standards at the end of each analytical sequence. Although the requirements of the cited methods were satisfied, ASP protocol was not. Data has not been qualified due to this discrepancy. However, this issue should be brought to the laboratory's attention prior to the next sampling event.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Preparation blanks are carried through the digestion process with each group of samples to evaluate general laboratory technique. Calibration blanks are run periodically to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

An initial blank (ICB) was analyzed following the calibration in each analytical sequence. Additional blanks were analyzed after every ten samples (CCB) and at the end of each sequence. Preparation blanks were digested, prior to analysis, with each group of samples. Each laboratory prepared blank that was associated with samples from this program was free of analyte contamination exceeding CRDL.

INTERFERENCE CHECK SAMPLE (ICS)

ICS standards are analyzed at the beginning and end of each ICP analysis sequence to verify background and inter-element correction factors. The recoveries of specified analytes are measured in the presence of interfering concentrations of aluminum, calcium, magnesium and iron.

Interference check standards, ICSA and ICSAB, were included in each ICP analysis sequence. Each interference check standard that was used to bracket samples from this program produced recoveries within the range of acceptance, 80% - 120%.

It is noted that the laboratory did not analyze ICS standards at the end of each analytical sequence. Although the requirements of the cited methods were satisfied, ASP protocol was not. Data has not been qualified due to this discrepancy. However, this issue should be brought to the laboratory's attention prior to the next sampling event.

PREDIGESTION SPIKE

The recovery of spike concentrations added to samples prior to digestion and analysis demonstrates measurement bias caused by sample matrix effects. Predigestion spikes must be recovered within control limits of 75% - 125%.

MW-3 was selected for matrix spiking. The required analytes were added to two portions of this sample. With the exception of calcium and sodium, each of these additions was recovered successfully. The concentrations of calcium and sodium in the unspiked aliquot of MW-3 exceeded four times the level of the spike. The recoveries produced by this pair of metals should not be considered. Data qualifications are not required.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Laboratory split duplicates of MW-3 were processed with this group of samples. The concentrations obtained from this duplicate pair differed by less than 20% RPD or CRDL. An acceptable level of measurement precision was demonstrated.

Field split duplicates of MW-3 were also included in this delivery group. Each analyte that was present in MW-3, at a concentration above CRDL, produced a result in the duplicate sample that differed by less than 50% RPD. The program requirement was satisfied.

LABORATORY CONTROL STANDARD

Laboratory control samples are prepared by adding analytes to clean sand or reagent water. Analyte concentrations are then determined without interferences caused by sample matrix effects.

An aqueous LCS standard was digested and analyzed with this group of samples. Acceptable recoveries were reported for each targeted analyte.

ICP SERIAL SILUTION SAMPLE

Possible matrix effects are verified by the process of serial dilutions. Samples are diluted 1:5 to reduce matrix contributions that might bias measurements. The original sample result, and the corrected concentration of the diluted sample are compared. Sample data is qualified if the original concentrations are not recovered within 10%. Analytes with initial concentrations below 50 times IDL are not considered.

MW-3 was prepared as a serial dilution. Of the analytes present in the undiluted aliquot of this sample, at a concentration exceeding 50 times IDL, only potassium (34%) and sodium (17%) differed from the diluted result by more than 10%. Sodium and potassium results have been qualified as estimations.

SUMMARY OF QUALIFIED DATA

Former Stillwater Boiler House site

Sampled 08Jul04

		CRDL SELENIUM	CRDL THALLIUM	SER DILUTE POTASSIUM	SER DILUTE SODIUM
MW-1	(S3529-01)		UJ	12400J	612000J
MW-6	(S3529-02)	5.89J	UJ	13300J	155000J
MW-2	(S3529-03)	5.79J	UJ	6890J	155000J
MW-3	(S3529-04)		UJ	16200J	129000J
MW-4	(S3529-05)		UJ	6230J	63100J
MW-5	(S3529-06)		UJ	3480J	117000J
MW-3DUP	(S3529-08)		UJ	13700J	107000J

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Sample ID: S3529-01 **Client ID:** MW-1

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Date Received:** 7/10/2004 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	429	ug/L			P	180	P1	P107154
7440-36-0	Antimony	6.600	ug/L	U		P	6.600	P1	P107154
7440-38-2	Arsenic	4.840	ug/L	U		P	4.840	P1	P107154
7440-39-3	Barium	145	ug/L	J		P	11.0	P1	P107154
7440-41-7	Beryllium	1.060	ug/L	U		P	1.060	P1	P107154
7440-43-9	Cadmium	0.994	ug/L	U		P	0.994	P1	P107154
7440-70-2	Calcium	214000	ug/L			P	1740	P1	P107154
7440-47-3	Chromium	1.370	ug/L	J		P	1.220	P1	P107154
7440-48-4	Cobalt	2.380	ug/L	U		P	2.380	P1	P107154
7440-50-8	Copper	1.460	ug/L	J		P	0.739	P1	P107154
7439-89-6	Iron	672	ug/L			P	29.0	P1	P107154
7439-92-1	Lead	4.540	ug/L	J		P	1.790	P1	P107154
7439-95-4	Magnesium	41500	ug/L			P	254	P1	P107154
7439-96-5	Manganese	315	ug/L			P	0.195	P1	P107154
7439-97-6	Mercury	0.06	ug/L	J		CV	0.03	CV2	071504B
7440-02-0	Nickel	5.550	ug/L	U		P	5.550	P1	P107154
7440-09-7	Potassium	12400	ug/L	J		P	51.0	P1	P107154
7782-49-2	Selenium	5.240	ug/L	U		P	5.240	P1	P107154
7440-22-4	Silver	3.380	ug/L	U		P	3.380	P1	P107154
7440-23-5	Sodium	612000	ug/L	J		P	189	P1	P107154
7440-28-0	Thallium	5.780	ug/L	UJ		P	5.780	P1	P107154
7440-62-2	Vanadium	1.860	ug/L	U		P	1.860	P1	P107154
7440-66-6	Zinc	26.6	ug/L			P	8.110	P1	P107154

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Color Before: COLORLESS **Clarity Before:** CLEAR **Texture:**

Color After: COLORLESS **Clarity After:** CLEAR **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Sample ID: S3529-02 **Client ID:** MW-6

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Date Received:** 7/10/2004 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	43400	ug/L			P	180	P1	P107154
7440-36-0	Antimony	6.600	ug/L	U		P	6.600	P1	P107154
7440-38-2	Arsenic	33.3	ug/L			P	4.840	P1	P107154
7440-39-3	Barium	329	ug/L			P	11.0	P1	P107154
7440-41-7	Beryllium	2.650	ug/L	J		P	1.060	P1	P107154
7440-43-9	Cadmium	3.340	ug/L	J		P	0.994	P1	P107154
7440-70-2	Calcium	168000	ug/L			P	1740	P1	P107154
7440-47-3	Chromium	54.0	ug/L			P	1.220	P1	P107154
7440-48-4	Cobalt	42.7	ug/L	J		P	2.380	P1	P107154
7440-50-8	Copper	147	ug/L			P	0.739	P1	P107154
7439-89-6	Iron	82800	ug/L			P	29.0	P1	P107154
7439-92-1	Lead	78.3	ug/L			P	1.790	P1	P107154
7439-95-4	Magnesium	41600	ug/L			P	254	P1	P107154
7439-96-5	Manganese	2120	ug/L			P	0.195	P1	P107154
7439-97-6	Mercury	0.24	ug/L			CV	0.03	CV2	071504B
7440-02-0	Nickel	103	ug/L			P	5.550	P1	P107154
7440-09-7	Potassium	13300	ug/L	J		P	51.0	P1	P107154
7782-49-2	Selenium	5.890	ug/L	~~U~~ J		P	5.240	P1	P107154
7440-22-4	Silver	3.380	ug/L	U		P	3.380	P1	P107154
7440-23-5	Sodium	155000	ug/L	J		P	189	P1	P107154
7440-28-0	Thallium	5.780	ug/L	~~U~~ UJ		P	5.780	P1	P107154
7440-62-2	Vanadium	56.0	ug/L			P	1.860	P1	P107154
7440-66-6	Zinc	313	ug/L			P	8.110	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** CLOUDY **Texture:**

Color After: YELLOW **Clarity After:** CLEAR **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Sample ID: S3529-03 **Client ID:** MW-2

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Date Received:** 7/10/2004 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	1830	ug/L			P	180	P1	P107154
7440-36-0	Antimony	6.600	ug/L	U		P	6.600	P1	P107154
7440-38-2	Arsenic	4.840	ug/L	U		P	4.840	P1	P107154
7440-39-3	Barium	62.5	ug/L	J		P	11.0	P1	P107154
7440-41-7	Beryllium	1.060	ug/L	U		P	1.060	P1	P107154
7440-43-9	Cadmium	0.994	ug/L	U		P	0.994	P1	P107154
7440-70-2	Calcium	92300	ug/L			P	1740	P1	P107154
7440-47-3	Chromium	1.840	ug/L	J		P	1.220	P1	P107154
7440-48-4	Cobalt	2.380	ug/L	U		P	2.380	P1	P107154
7440-50-8	Copper	40.4	ug/L			P	0.739	P1	P107154
7439-89-6	Iron	3610	ug/L			P	29.0	P1	P107154
7439-92-1	Lead	18.4	ug/L			P	1.790	P1	P107154
7439-95-4	Magnesium	13800	ug/L			P	254	P1	P107154
7439-96-5	Manganese	347	ug/L			P	0.195	P1	P107154
7439-97-6	Mercury	0.03	ug/L	U		CV	0.03	CV2	071504B
7440-02-0	Nickel	5.550	ug/L	U		P	5.550	P1	P107154
7440-09-7	Potassium	6890	ug/L	J		P	51.0	P1	P107154
7782-49-2	Selenium	5.790	ug/L	~~U~~ J		P	5.240	P1	P107154
7440-22-4	Silver	3.380	ug/L	U		P	3.380	P1	P107154
7440-23-5	Sodium	155000	ug/L	J		P	189	P1	P107154
7440-28-0	Thallium	5.780	ug/L	~~U~~ UJ		P	5.780	P1	P107154
7440-62-2	Vanadium	1.860	ug/L	U		P	1.860	P1	P107154
7440-66-6	Zinc	38.8	ug/L			P	8.110	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Color Before: COLORLESS **Clarity Before:** CLEAR **Texture:**

Color After: COLORLESS **Clarity After:** CLEAR **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Sample ID: S3529-04 **Client ID:** MW-3

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Date Received:** 7/10/2004 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	643	ug/L			P	180	P1	P107154
7440-36-0	Antimony	6.600	ug/L	U		P	6.600	P1	P107154
7440-38-2	Arsenic	4.840	ug/L	U		P	4.840	P1	P107154
7440-39-3	Barium	108	ug/L	J		P	11.0	P1	P107154
7440-41-7	Beryllium	1.060	ug/L	U		P	1.060	P1	P107154
7440-43-9	Cadmium	0.994	ug/L	U		P	0.994	P1	P107154
7440-70-2	Calcium	143000	ug/L			P	1740	P1	P107154
7440-47-3	Chromium	1.620	ug/L	J		P	1.220	P1	P107154
7440-48-4	Cobalt	2.380	ug/L	U		P	2.380	P1	P107154
7440-50-8	Copper	26.5	ug/L			P	0.739	P1	P107154
7439-89-6	Iron	1090	ug/L			P	29.0	P1	P107154
7439-92-1	Lead	14.2	ug/L			P	1.790	P1	P107154
7439-95-4	Magnesium	15500	ug/L			P	254	P1	P107154
7439-96-5	Manganese	46.3	ug/L			P	0.195	P1	P107154
7439-97-6	Mercury	0.03	ug/L	U		CV	0.03	CV2	071504B
7440-02-0	Nickel	5.550	ug/L	U		P	5.550	P1	P107154
7440-09-7	Potassium	16200	ug/L	J		P	51.0	P1	P107154
7782-49-2	Selenium	5.240	ug/L	U		P	5.240	P1	P107154
7440-22-4	Silver	3.380	ug/L	U		P	3.380	P1	P107154
7440-23-5	Sodium	129000	ug/L	J		P	189	P1	P107154
7440-28-0	Thallium	5.780	ug/L	UJ		P	5.780	P1	P107154
7440-62-2	Vanadium	1.900	ug/L	J		P	1.860	P1	P107154
7440-66-6	Zinc	42.3	ug/L			P	8.110	P1	P107154

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Color Before: COLORLESS **Clarity Before:** CLEAR **Texture:**

Color After: COLORLESS **Clarity After:** CLEAR **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Sample ID: S3529-05 **Client ID:** MW-4

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Date Received:** 7/10/2004 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	532	ug/L			P	180	P1	P107154
7440-36-0	Antimony	6.600	ug/L	U		P	6.600	P1	P107154
7440-38-2	Arsenic	4.840	ug/L	U		P	4.840	P1	P107154
7440-39-3	Barium	67.5	ug/L	J		P	11.0	P1	P107154
7440-41-7	Beryllium	1.060	ug/L	U		P	1.060	P1	P107154
7440-43-9	Cadmium	0.994	ug/L	U		P	0.994	P1	P107154
7440-70-2	Calcium	90400	ug/L			P	1740	P1	P107154
7440-47-3	Chromium	1.370	ug/L	J		P	1.220	P1	P107154
7440-48-4	Cobalt	2.380	ug/L	U		P	2.380	P1	P107154
7440-50-8	Copper	16.0	ug/L	J		P	0.739	P1	P107154
7439-89-6	Iron	723	ug/L			P	29.0	P1	P107154
7439-92-1	Lead	11.7	ug/L			P	1.790	P1	P107154
7439-95-4	Magnesium	13400	ug/L			P	254	P1	P107154
7439-96-5	Manganese	607	ug/L			P	0.195	P1	P107154
7439-97-6	Mercury	0.08	ug/L	J		CV	0.03	CV2	071504B
7440-02-0	Nickel	5.550	ug/L	U		P	5.550	P1	P107154
7440-09-7	Potassium	6230	ug/L	J		P	51.0	P1	P107154
7782-49-2	Selenium	5.240	ug/L	U		P	5.240	P1	P107154
7440-22-4	Silver	3.380	ug/L	U		P	3.380	P1	P107154
7440-23-5	Sodium	63100	ug/L	J		P	189	P1	P107154
7440-28-0	Thallium	5.780	ug/L	UJ		P	5.780	P1	P107154
7440-62-2	Vanadium	1.900	ug/L	J		P	1.860	P1	P107154
7440-66-6	Zinc	44.9	ug/L			P	8.110	P1	P107154

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Color Before: COLORLESS **Clarity Before:** CLEAR **Texture:**

Color After: COLORLESS **Clarity After:** CLEAR **Artifacts:**

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Sample ID: S3529-06 **Client ID:** MW-5

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Date Received:** 7/10/2004 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	11200	ug/L			P	180	P1	P107154
7440-36-0	Antimony	6.600	ug/L	U		P	6.600	P1	P107154
7440-38-2	Arsenic	10.1	ug/L			P	4.840	P1	P107154
7440-39-3	Barium	129	ug/L	J		P	11.0	P1	P107154
7440-41-7	Beryllium	1.460	ug/L	J		P	1.060	P1	P107154
7440-43-9	Cadmium	0.994	ug/L	U		P	0.994	P1	P107154
7440-70-2	Calcium	138000	ug/L			P	1740	P1	P107154
7440-47-3	Chromium	14.6	ug/L			P	1.220	P1	P107154
7440-48-4	Cobalt	7.820	ug/L	J		P	2.380	P1	P107154
7440-50-8	Copper	33.5	ug/L			P	0.739	P1	P107154
7439-89-6	Iron	19900	ug/L			P	29.0	P1	P107154
7439-92-1	Lead	38.1	ug/L			P	1.790	P1	P107154
7439-95-4	Magnesium	49400	ug/L			P	254	P1	P107154
7439-96-5	Manganese	872	ug/L			P	0.195	P1	P107154
7439-97-6	Mercury	0.18	ug/L	J		CV	0.03	CV2	071504B
7440-02-0	Nickel	23.6	ug/L	J		P	5.550	P1	P107154
7440-09-7	Potassium	3480	ug/L	~~J~~ J		P	51.0	P1	P107154
7782-49-2	Selenium	5.240	ug/L	U		P	5.240	P1	P107154
7440-22-4	Silver	3.380	ug/L	U		P	3.380	P1	P107154
7440-23-5	Sodium	117000	ug/L	J		P	189	P1	P107154
7440-28-0	Thallium	5.780	ug/L	~~U~~ UJ		P	5.780	P1	P107154
7440-62-2	Vanadium	16.2	ug/L	J		P	1.860	P1	P107154
7440-66-6	Zinc	128	ug/L			P	8.110	P1	P107154

JJB

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Color Before: BROWN **Clarity Before:** CLOUDY **Texture:**

Color After: YELLOW **Clarity After:** CLEAR **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Sample ID: S3529-08 **Client ID:** MW-3DUP

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Date Received:** 7/10/2004 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	972	ug/L			P	180	P1	P107154
7440-36-0	Antimony	6.600	ug/L	U		P	6.600	P1	P107154
7440-38-2	Arsenic	5.840	ug/L	J		P	4.840	P1	P107154
7440-39-3	Barium	98.9	ug/L	J		P	11.0	P1	P107154
7440-41-7	Beryllium	1.060	ug/L	U		P	1.060	P1	P107154
7440-43-9	Cadmium	0.994	ug/L	U		P	0.994	P1	P107154
7440-70-2	Calcium	123000	ug/L			P	1740	P1	P107154
7440-47-3	Chromium	1.820	ug/L	J		P	1.220	P1	P107154
7440-48-4	Cobalt	2.380	ug/L	U		P	2.380	P1	P107154
7440-50-8	Copper	40.1	ug/L			P	0.739	P1	P107154
7439-89-6	Iron	1790	ug/L			P	29.0	P1	P107154
7439-92-1	Lead	21.1	ug/L			P	1.790	P1	P107154
7439-95-4	Magnesium	13600	ug/L			P	254	P1	P107154
7439-96-5	Manganese	59.7	ug/L			P	0.195	P1	P107154
7439-97-6	Mercury	0.08	ug/L	J		CV	0.03	CV2	071504B
7440-02-0	Nickel	5.550	ug/L	U		P	5.550	P1	P107154
7440-09-7	Potassium	13700	ug/L	J		P	51.0	P1	P107154
7782-49-2	Selenium	5.240	ug/L	U		P	5.240	P1	P107154
7440-22-4	Silver	3.380	ug/L	U		P	3.380	P1	P107154
7440-23-5	Sodium	107000	ug/L	J		P	189	P1	P107154
7440-28-0	Thallium	5.780	ug/L	UJ		P	5.780	P1	P107154
7440-62-2	Vanadium	1.940	ug/L	J		P	1.860	P1	P107154
7440-66-6	Zinc	51.4	ug/L			P	8.110	P1	P107154

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Chazen Companies **SDG No.:** S3529 **Method Type:** SW846

Color Before: COLORLESS **Clarity Before:** CLOUDY **Texture:**

Color After: COLORLESS **Clarity After:** CLEAR **Artifacts:**

Comments:

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01									
	Aluminum	2588.40	2482.0	104.3	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Antimony	1026.93	992.0	103.5	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Arsenic	1004.36	996.0	100.8	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Barium	540.48	502.0	107.7	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Beryllium	500.54	493.0	101.5	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Cadmium	516.51	494.0	104.6	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Calcium	10464.50	10180.0	102.8	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Chromium	507.81	490.0	103.6	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Cobalt	518.82	496.0	104.6	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Copper	507.36	490.0	103.5	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Iron	4945.28	5107.0	96.8	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Lead	1023.10	996.0	102.7	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Magnesium	6234.40	6003.0	103.9	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Manganese	521.24	495.0	105.3	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Mercury	3.93	4.1	95.9	90.0 - 110.0	CV	7/15/2004	13:32	071504B
	Nickel	515.40	492.0	104.8	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Potassium	9047.87	10008.0	90.4	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Selenium	1024.40	1005.0	101.9	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Silver	517.50	495.0	104.5	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Sodium	9456.94	10039.0	94.2	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Thallium	1021.64	1027.0	99.5	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Vanadium	488.99	501.0	97.6	90.0 - 110.0	P	7/15/2004	10:04	P107154
	Zinc	1056.90	1000.0	105.7	90.0 - 110.0	P	7/15/2004	10:04	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV36									
	Aluminum	9762.80	10000.0	97.6	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Antimony	5057.06	5000.0	101.1	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Arsenic	5265.08	5000.0	105.3	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Barium	10324.69	10000.0	103.2	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Beryllium	254.05	250.0	101.6	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Cadmium	2582.99	2500.0	103.3	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Calcium	25325.23	25000.0	101.3	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Chromium	972.22	1000.0	97.2	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Cobalt	2425.44	2500.0	97.0	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Copper	1177.69	1250.0	94.2	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Iron	4637.71	5000.0	92.8	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Lead	4914.12	5000.0	98.3	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Magnesium	24496.46	25000.0	98.0	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Manganese	2408.75	2500.0	96.4	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Nickel	2518.87	2500.0	100.8	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Potassium	25710.20	25000.0	102.8	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Selenium	5291.54	5000.0	105.8	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Silver	1332.94	1250.0	106.6	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Sodium	26248.96	25000.0	105.0	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Thallium	5380.38	5000.0	107.6	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Vanadium	2369.13	2500.0	94.8	90.0 - 110.0	P	7/16/2004	03:15	P107154
	Zinc	2503.02	2500.0	100.1	90.0 - 110.0	P	7/16/2004	03:15	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV37									
	Aluminum	9593.74	10000.0	95.9	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Antimony	4991.07	5000.0	99.8	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Arsenic	5192.98	5000.0	103.9	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Barium	10178.74	10000.0	101.8	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Beryllium	249.52	250.0	99.8	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Cadmium	2539.92	2500.0	101.6	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Calcium	24860.61	25000.0	99.4	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Chromium	954.38	1000.0	95.4	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Cobalt	2382.90	2500.0	95.3	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Copper	1157.37	1250.0	92.6	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Iron	4515.42	5000.0	90.3	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Lead	4856.04	5000.0	97.1	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Magnesium	24065.13	25000.0	96.3	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Manganese	2363.52	2500.0	94.5	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Nickel	2479.54	2500.0	99.2	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Potassium	25293.12	25000.0	101.2	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Selenium	5263.64	5000.0	105.3	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Silver	1312.90	1250.0	105.0	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Sodium	25972.70	25000.0	103.9	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Thallium	5322.28	5000.0	106.4	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Vanadium	2322.14	2500.0	92.9	90.0 - 110.0	P	7/16/2004	03:41	P107154
	Zinc	2461.10	2500.0	98.4	90.0 - 110.0	P	7/16/2004	03:41	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV38									
	Aluminum	9601.94	10000.0	96.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Antimony	5001.62	5000.0	100.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Arsenic	5248.07	5000.0	105.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Barium	10230.46	10000.0	102.3	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Beryllium	252.16	250.0	100.9	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Cadmium	2572.98	2500.0	102.9	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Calcium	25103.04	25000.0	100.4	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Chromium	961.18	1000.0	96.1	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Cobalt	2397.10	2500.0	95.9	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Copper	1153.26	1250.0	92.3	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Iron	4591.92	5000.0	91.8	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Lead	4875.89	5000.0	97.5	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Magnesium	24150.30	25000.0	96.6	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Manganese	2374.12	2500.0	95.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Nickel	2502.68	2500.0	100.1	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Potassium	25255.55	25000.0	101.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Selenium	5251.14	5000.0	105.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Silver	1321.64	1250.0	105.7	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Sodium	26038.23	25000.0	104.2	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Thallium	5357.04	5000.0	107.1	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Vanadium	2324.23	2500.0	93.0	90.0 - 110.0	P	7/16/2004	04:10	P107154
	Zinc	2477.18	2500.0	99.1	90.0 - 110.0	P	7/16/2004	04:10	P107154

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

AA CRDL Standard Source:

ICP CRDL Standard Source: INOR-VEN

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01									
	Aluminum	411.60	400.0	102.9	75 - 125	P	7/15/2004	10:15	P107154
	Antimony	123.60	120.0	103.0	75 - 125	P	7/15/2004	10:15	P107154
	Arsenic	23.81	20.0	119.0	75 - 125	P	7/15/2004	10:15	P107154
	Barium	396.57	400.0	99.1	75 - 125	P	7/15/2004	10:15	P107154
	Beryllium	10.44	10.0	104.4	75 - 125	P	7/15/2004	10:15	P107154
	Cadmium	10.54	10.0	105.4	75 - 125	P	7/15/2004	10:15	P107154
	Calcium	9972.47	10000.0	99.7	75 - 125	P	7/15/2004	10:15	P107154
	Chromium	20.64	20.0	103.2	75 - 125	P	7/15/2004	10:15	P107154
	Cobalt	102.91	100.0	102.9	75 - 125	P	7/15/2004	10:15	P107154
	Copper	50.98	50.0	102.0	75 - 125	P	7/15/2004	10:15	P107154
	Iron	218.145	200.0	109.07	75 - 125	P	7/15/2004	10:15	P107154
	Lead	6.42	6.0	107.0	75 - 125	P	7/15/2004	10:15	P107154
	Magnesium	9958.20	10000.0	99.6	75 - 125	P	7/15/2004	10:15	P107154
	Manganese	31.82	30.0	106.1	75 - 125	P	7/15/2004	10:15	P107154
	Mercury	0.14	0.2	70.0	0 - 200	CV	7/15/2004	13:42	071504B
	Nickel	86.11	80.0	107.6	75 - 125	P	7/15/2004	10:15	P107154
	Selenium	8.06	10.0	80.6	75 - 125	P	7/15/2004	10:15	P107154
	Silver	21.66	20.0	108.3	75 - 125	P	7/15/2004	10:15	P107154
	Thallium	17.72	20.0	88.6	75 - 125	P	7/15/2004	10:15	P107154
	Vanadium	104.72	100.0	104.7	75 - 125	P	7/15/2004	10:15	P107154
	Zinc	43.43	40.0	108.6	75 - 125	P	7/15/2004	10:15	P107154

Metals

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CRDL STANDARD FOR AA & ICP

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

AA CRDL Standard Source:

ICP CRDL Standard Source: INOR-VEN

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRI02									
	Aluminum	404.90	400.0	101.2	75 - 125	P	7/15/2004	18:08	P107154
	Antimony	120.01	120.0	100.0	75 - 125	P	7/15/2004	18:08	P107154
	Arsenic	23.34	20.0	116.7	75 - 125	P	7/15/2004	18:08	P107154
	Barium	384.90	400.0	96.2	75 - 125	P	7/15/2004	18:08	P107154
	Beryllium	10.32	10.0	103.2	75 - 125	P	7/15/2004	18:08	P107154
	Cadmium	10.54	10.0	105.4	75 - 125	P	7/15/2004	18:08	P107154
	Calcium	9680.49	10000.0	96.8	75 - 125	P	7/15/2004	18:08	P107154
	Chromium	21.28	20.0	106.4	75 - 125	P	7/15/2004	18:08	P107154
	Cobalt	101.64	100.0	101.6	75 - 125	P	7/15/2004	18:08	P107154
	Copper	50.30	50.0	100.6	75 - 125	P	7/15/2004	18:08	P107154
	Iron	218.980	200.0	109.49	75 - 125	P	7/15/2004	18:08	P107154
	Lead	6.18	6.0	103.0	75 - 125	P	7/15/2004	18:08	P107154
	Magnesium	9670.15	10000.0	96.7	75 - 125	P	7/15/2004	18:08	P107154
	Manganese	31.68	30.0	105.6	75 - 125	P	7/15/2004	18:08	P107154
	Nickel	84.26	80.0	105.3	75 - 125	P	7/15/2004	18:08	P107154
	Selenium	9.04	10.0	90.4	75 - 125	P	7/15/2004	18:08	P107154
	Silver	21.17	20.0	105.8	75 - 125	P	7/15/2004	18:08	P107154
	Thallium	17.86	20.0	89.3	75 - 125	P	7/15/2004	18:08	P107154
	Vanadium	104.64	100.0	104.6	75 - 125	P	7/15/2004	18:08	P107154
	Zinc	42.60	40.0	106.5	75 - 125	P	7/15/2004	18:08	P107154

Metals

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CRDL STANDARD FOR AA & ICP

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

AA CRDL Standard Source:

ICP CRDL Standard Source: INOR-VEN

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRI03									
	Aluminum	410.01	400.0	102.5	75 - 125	P	7/16/2004	02:06	P107154
	Antimony	121.09	120.0	100.9	75 - 125	P	7/16/2004	02:06	P107154
	Arsenic	20.57	20.0	102.8	75 - 125	P	7/16/2004	02:06	P107154
	Barium	384.44	400.0	96.1	75 - 125	P	7/16/2004	02:06	P107154
	Beryllium	10.48	10.0	104.8	75 - 125	P	7/16/2004	02:06	P107154
	Cadmium	9.70	10.0	97.0	75 - 125	P	7/16/2004	02:06	P107154
	Calcium	9684.86	10000.0	96.8	75 - 125	P	7/16/2004	02:06	P107154
	Chromium	20.68	20.0	103.4	75 - 125	P	7/16/2004	02:06	P107154
	Cobalt	102.20	100.0	102.2	75 - 125	P	7/16/2004	02:06	P107154
	Copper	50.56	50.0	101.1	75 - 125	P	7/16/2004	02:06	P107154
	Iron	209.505	200.0	104.75	75 - 125	P	7/16/2004	02:06	P107154
	Lead	6.53	6.0	108.8	75 - 125	P	7/16/2004	02:06	P107154
	Magnesium	9682.30	10000.0	96.8	75 - 125	P	7/16/2004	02:06	P107154
	Manganese	31.60	30.0	105.3	75 - 125	P	7/16/2004	02:06	P107154
	Nickel	84.32	80.0	105.4	75 - 125	P	7/16/2004	02:06	P107154
	Selenium	12.42	10.0	124.2	75 - 125	P	7/16/2004	02:06	P107154
	Silver	21.57	20.0	107.8	75 - 125	P	7/16/2004	02:06	P107154
	Thallium	15.16	20.0	75.8	75 - 125	P	7/16/2004	02:06	P107154
	Vanadium	104.99	100.0	105.0	75 - 125	P	7/16/2004	02:06	P107154
	Zinc	42.10	40.0	105.2	75 - 125	P	7/16/2004	02:06	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
ICB01										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/15/2004	10:07	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/15/2004	10:07	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/15/2004	10:07	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/15/2004	10:07	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/15/2004	10:07	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/15/2004	10:07	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/15/2004	10:07	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/15/2004	10:07	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/15/2004	10:07	P107154
	Copper	0.7	+/-25.0	U	0.7	25.0	P	7/15/2004	10:07	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/15/2004	10:07	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/15/2004	10:07	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/15/2004	10:07	P107154
	Manganese	0.2	+/-15.0	U	0.2	15.0	P	7/15/2004	10:07	P107154
	Mercury	-0.04	+/-0.20	J	0.03	0.20	CV	7/15/2004	13:34	071504B
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/15/2004	10:07	P107154
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/15/2004	10:07	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/15/2004	10:07	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/15/2004	10:07	P107154
	Sodium	-267.5	+/-5000.0	J	189.5	5000.0	P	7/15/2004	10:07	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/15/2004	10:07	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/15/2004	10:07	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/15/2004	10:07	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB36										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/16/2004	03:17	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/16/2004	03:17	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/16/2004	03:17	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/16/2004	03:17	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/16/2004	03:17	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/16/2004	03:17	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/16/2004	03:17	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/16/2004	03:17	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/16/2004	03:17	P107154
	Copper	-1.3	+/-25.0	J	0.7	25.0	P	7/16/2004	03:17	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/16/2004	03:17	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/16/2004	03:17	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/16/2004	03:17	P107154
	Manganese	-0.4	+/-15.0	J	0.2	15.0	P	7/16/2004	03:17	P107154
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/16/2004	03:17	P107154
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/16/2004	03:17	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/16/2004	03:17	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/16/2004	03:17	P107154
	Sodium	-413.9	+/-5000.0	J	189.5	5000.0	P	7/16/2004	03:17	P107154
	Thallium	5.8	+/-10.0	U	5.8	10.0	P	7/16/2004	03:17	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/16/2004	03:17	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/16/2004	03:17	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB37										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/16/2004	03:43	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/16/2004	03:43	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/16/2004	03:43	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/16/2004	03:43	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/16/2004	03:43	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/16/2004	03:43	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/16/2004	03:43	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/16/2004	03:43	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/16/2004	03:43	P107154
	Copper	-1.5	+/-25.0	J	0.7	25.0	P	7/16/2004	03:43	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/16/2004	03:43	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/16/2004	03:43	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/16/2004	03:43	P107154
	Manganese	-0.5	+/-15.0	J	0.2	15.0	P	7/16/2004	03:43	P107154
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/16/2004	03:43	P107154
	Potassium	51.0	+/-5000.0	U	51.0	5000.0	P	7/16/2004	03:43	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/16/2004	03:43	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/16/2004	03:43	P107154
	Sodium	-292.5	+/-5000.0	J	189.5	5000.0	P	7/16/2004	03:43	P107154
	Thallium	8.0	+/-10.0	J	5.8	10.0	P	7/16/2004	03:43	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/16/2004	03:43	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/16/2004	03:43	P107154

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB38										
	Aluminum	180.1	+/-200.0	U	180.1	200.0	P	7/16/2004	04:12	P107154
	Antimony	6.6	+/-60.0	U	6.6	60.0	P	7/16/2004	04:12	P107154
	Arsenic	4.8	+/-10.0	U	4.8	10.0	P	7/16/2004	04:12	P107154
	Barium	11.0	+/-200.0	U	11.0	200.0	P	7/16/2004	04:12	P107154
	Beryllium	1.1	+/-5.0	U	1.1	5.0	P	7/16/2004	04:12	P107154
	Cadmium	1.0	+/-5.0	U	1.0	5.0	P	7/16/2004	04:12	P107154
	Calcium	1744.7	+/-5000.0	U	1744.7	5000.0	P	7/16/2004	04:12	P107154
	Chromium	1.2	+/-10.0	U	1.2	10.0	P	7/16/2004	04:12	P107154
	Cobalt	2.4	+/-50.0	U	2.4	50.0	P	7/16/2004	04:12	P107154
	Copper	-1.4	+/-25.0	J	0.7	25.0	P	7/16/2004	04:12	P107154
	Iron	29.0	+/-100.0	U	29.0	100.0	P	7/16/2004	04:12	P107154
	Lead	1.8	+/-5.0	U	1.8	5.0	P	7/16/2004	04:12	P107154
	Magnesium	254.2	+/-5000.0	U	254.2	5000.0	P	7/16/2004	04:12	P107154
	Manganese	-0.5	+/-15.0	J	0.2	15.0	P	7/16/2004	04:12	P107154
	Nickel	5.5	+/-40.0	U	5.5	40.0	P	7/16/2004	04:12	P107154
	Potassium	-74.0	+/-5000.0	J	51.0	5000.0	P	7/16/2004	04:12	P107154
	Selenium	5.2	+/-10.0	U	5.2	10.0	P	7/16/2004	04:12	P107154
	Silver	3.4	+/-10.0	U	3.4	10.0	P	7/16/2004	04:12	P107154
	Sodium	-659.7	+/-5000.0	J	189.5	5000.0	P	7/16/2004	04:12	P107154
	Thallium	7.1	+/-10.0	J	5.8	10.0	P	7/16/2004	04:12	P107154
	Vanadium	1.9	+/-50.0	U	1.9	50.0	P	7/16/2004	04:12	P107154
	Zinc	8.1	+/-20.0	U	8.1	20.0	P	7/16/2004	04:12	P107154

Metals

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INTERFERENCE CHECK SAMPLE

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

ICS Source: **Instrument ID:** P1

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-A01								
	Aluminum	477000	519000	91.9	80 - 120	7/15/2004	10:22	P107154
	Antimony	-2.7			0 - 0	7/15/2004	10:22	P107154
	Arsenic	-1.2			0 - 0	7/15/2004	10:22	P107154
	Barium	-1.4			0 - 0	7/15/2004	10:22	P107154
	Beryllium	0.10			0 - 0	7/15/2004	10:22	P107154
	Cadmium	8.7			0 - 0	7/15/2004	10:22	P107154
	Calcium	429000	491900	87.2	80 - 120	7/15/2004	10:22	P107154
	Chromium	18.3	20	91.5	80 - 120	7/15/2004	10:22	P107154
	Cobalt	0.74			0 - 0	7/15/2004	10:22	P107154
	Copper	5.6			0 - 0	7/15/2004	10:22	P107154
	Iron	168000	195000	86.2	80 - 120	7/15/2004	10:22	P107154
	Lead	4.7			0 - 0	7/15/2004	10:22	P107154
	Magnesium	507000	542000	93.5	80 - 120	7/15/2004	10:22	P107154
	Manganese	-3.8			0 - 0	7/15/2004	10:22	P107154
	Nickel	-2.1			0 - 0	7/15/2004	10:22	P107154
	Potassium	88.0			0 - 0	7/15/2004	10:22	P107154
	Selenium	4.1			0 - 0	7/15/2004	10:22	P107154
	Silver	1.7			0 - 0	7/15/2004	10:22	P107154
	Sodium	-439			0 - 0	7/15/2004	10:22	P107154
	Thallium	-11.8			0 - 0	7/15/2004	10:22	P107154
	Vanadium	-3.0			0 - 0	7/15/2004	10:22	P107154
	Zinc	-1.7			0 - 0	7/15/2004	10:22	P107154

Metals

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INTERFERENCE CHECK SAMPLE

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

ICS Source: **Instrument ID:** P1

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-AB01								
	Aluminum	493000	514000	95.9	80 - 120	7/15/2004	10:26	P107154
	Antimony	579	518	111.8	80 - 120	7/15/2004	10:26	P107154
	Arsenic	98.1	102	96.2	80 - 120	7/15/2004	10:26	P107154
	Barium	508	456	111.4	80 - 120	7/15/2004	10:26	P107154
	Beryllium	438	458	95.6	80 - 120	7/15/2004	10:26	P107154
	Cadmium	906	910	99.6	80 - 120	7/15/2004	10:26	P107154
	Calcium	442000	489000	90.4	80 - 120	7/15/2004	10:26	P107154
	Chromium	452	455	99.3	80 - 120	7/15/2004	10:26	P107154
	Cobalt	461	430	107.2	80 - 120	7/15/2004	10:26	P107154
	Copper	513	506	101.4	80 - 120	7/15/2004	10:26	P107154
	Iron	174000	194600	89.4	80 - 120	7/15/2004	10:26	P107154
	Lead	51.8	49	105.7	80 - 120	7/15/2004	10:26	P107154
	Magnesium	522000	540600	96.6	80 - 120	7/15/2004	10:26	P107154
	Manganese	452	438	103.2	80 - 120	7/15/2004	10:26	P107154
	Nickel	879	846	103.9	80 - 120	7/15/2004	10:26	P107154
	Potassium	90.5			80 - 120	7/15/2004	10:26	P107154
	Selenium	51.0	47	108.5	80 - 120	7/15/2004	10:26	P107154
	Silver	213	196	108.7	80 - 120	7/15/2004	10:26	P107154
	Sodium	-132			80 - 120	7/15/2004	10:26	P107154
	Thallium	81.6	89	91.7	80 - 120	7/15/2004	10:26	P107154
	Vanadium	454	452	100.4	80 - 120	7/15/2004	10:26	P107154
	Zinc	992	958	103.5	80 - 120	7/15/2004	10:26	P107154

Metals

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INTERFERENCE CHECK SAMPLE

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

ICS Source: **Instrument ID:** P1

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-A02								
	Aluminum	482000	519000	92.9	80 - 120	7/15/2004	18:15	P107154
	Antimony	-6.4			0 - 0	7/15/2004	18:15	P107154
	Arsenic	-3.9			0 - 0	7/15/2004	18:15	P107154
	Barium	-2.6			0 - 0	7/15/2004	18:15	P107154
	Beryllium	0.12			0 - 0	7/15/2004	18:15	P107154
	Cadmium	7.2			0 - 0	7/15/2004	18:15	P107154
	Calcium	432000	491900	87.8	80 - 120	7/15/2004	18:15	P107154
	Chromium	18.1	20	90.5	80 - 120	7/15/2004	18:15	P107154
	Cobalt	-1.5			0 - 0	7/15/2004	18:15	P107154
	Copper	4.8			0 - 0	7/15/2004	18:15	P107154
	Iron	166000	195000	85.1	80 - 120	7/15/2004	18:15	P107154
	Lead	5.9			0 - 0	7/15/2004	18:15	P107154
	Magnesium	508000	542000	93.7	80 - 120	7/15/2004	18:15	P107154
	Manganese	-3.6			0 - 0	7/15/2004	18:15	P107154
	Nickel	-2.9			0 - 0	7/15/2004	18:15	P107154
	Potassium	86.2			0 - 0	7/15/2004	18:15	P107154
	Selenium	8.6			0 - 0	7/15/2004	18:15	P107154
	Silver	0.62			0 - 0	7/15/2004	18:15	P107154
	Sodium	-90.8			0 - 0	7/15/2004	18:15	P107154
	Thallium	-12.9			0 - 0	7/15/2004	18:15	P107154
	Vanadium	-2.7			0 - 0	7/15/2004	18:15	P107154
	Zinc	-2.0			0 - 0	7/15/2004	18:15	P107154

Metals

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INTERFERENCE CHECK SAMPLE

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

ICS Source: **Instrument ID:** P1

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-AB02								
	Aluminum	485000	514000	94.4	80 - 120	7/15/2004	18:17	P107154
	Antimony	564	518	108.9	80 - 120	7/15/2004	18:17	P107154
	Arsenic	92.1	102	90.3	80 - 120	7/15/2004	18:17	P107154
	Barium	494	456	108.3	80 - 120	7/15/2004	18:17	P107154
	Beryllium	425	458	92.8	80 - 120	7/15/2004	18:17	P107154
	Cadmium	877	910	96.4	80 - 120	7/15/2004	18:17	P107154
	Calcium	433000	489000	88.5	80 - 120	7/15/2004	18:17	P107154
	Chromium	435	455	95.6	80 - 120	7/15/2004	18:17	P107154
	Cobalt	444	430	103.3	80 - 120	7/15/2004	18:17	P107154
	Copper	496	506	98.0	80 - 120	7/15/2004	18:17	P107154
	Iron	167000	194600	85.8	80 - 120	7/15/2004	18:17	P107154
	Lead	48.6	49	99.2	80 - 120	7/15/2004	18:17	P107154
	Magnesium	509000	540600	94.2	80 - 120	7/15/2004	18:17	P107154
	Manganese	436	438	99.5	80 - 120	7/15/2004	18:17	P107154
	Nickel	850	846	100.5	80 - 120	7/15/2004	18:17	P107154
	Potassium	59.8			80 - 120	7/15/2004	18:17	P107154
	Selenium	39.2	47	83.4	80 - 120	7/15/2004	18:17	P107154
	Silver	205	196	104.6	80 - 120	7/15/2004	18:17	P107154
	Sodium	-28.1			80 - 120	7/15/2004	18:17	P107154
	Thallium	71.2	89	80.0	80 - 120	7/15/2004	18:17	P107154
	Vanadium	437	452	96.7	80 - 120	7/15/2004	18:17	P107154
	Zinc	961	958	100.3	80 - 120	7/15/2004	18:17	P107154

Metals

- 4 -

INTERFERENCE CHECK SAMPLE

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

ICS Source: **Instrument ID:** P1

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-A03								
	Aluminum	480000	519000	92.5	80 - 120	7/16/2004	02:11	P107154
	Antimony	-5.0			0 - 0	7/16/2004	02:11	P107154
	Arsenic	-1.9			0 - 0	7/16/2004	02:11	P107154
	Barium	-2.6			0 - 0	7/16/2004	02:11	P107154
	Beryllium	0.095			0 - 0	7/16/2004	02:11	P107154
	Cadmium	7.5			0 - 0	7/16/2004	02:11	P107154
	Calcium	431000	491900	87.6	80 - 120	7/16/2004	02:11	P107154
	Chromium	18.0	20	90.0	80 - 120	7/16/2004	02:11	P107154
	Cobalt	-0.28			0 - 0	7/16/2004	02:11	P107154
	Copper	4.8			0 - 0	7/16/2004	02:11	P107154
	Iron	167000	195000	85.6	80 - 120	7/16/2004	02:11	P107154
	Lead	3.8			0 - 0	7/16/2004	02:11	P107154
	Magnesium	509000	542000	93.9	80 - 120	7/16/2004	02:11	P107154
	Manganese	-3.2			0 - 0	7/16/2004	02:11	P107154
	Nickel	-2.8			0 - 0	7/16/2004	02:11	P107154
	Potassium	81.9			0 - 0	7/16/2004	02:11	P107154
	Selenium	2.9			0 - 0	7/16/2004	02:11	P107154
	Silver	1.1			0 - 0	7/16/2004	02:11	P107154
	Sodium	-347			0 - 0	7/16/2004	02:11	P107154
	Thallium	-17.7			0 - 0	7/16/2004	02:11	P107154
	Vanadium	-2.0			0 - 0	7/16/2004	02:11	P107154
	Zinc	-2.0			0 - 0	7/16/2004	02:11	P107154

Metals

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INTERFERENCE CHECK SAMPLE

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

ICS Source: **Instrument ID:** P1

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-AB03								
	Aluminum	493000	514000	95.9	80 - 120	7/16/2004	02:16	P107154
	Antimony	566	518	109.3	80 - 120	7/16/2004	02:16	P107154
	Arsenic	94.3	102	92.5	80 - 120	7/16/2004	02:16	P107154
	Barium	502	456	110.1	80 - 120	7/16/2004	02:16	P107154
	Beryllium	433	458	94.5	80 - 120	7/16/2004	02:16	P107154
	Cadmium	891	910	97.9	80 - 120	7/16/2004	02:16	P107154
	Calcium	440000	489000	90.0	80 - 120	7/16/2004	02:16	P107154
	Chromium	445	455	97.8	80 - 120	7/16/2004	02:16	P107154
	Cobalt	452	430	105.1	80 - 120	7/16/2004	02:16	P107154
	Copper	506	506	100.0	80 - 120	7/16/2004	02:16	P107154
	Iron	171000	194600	87.9	80 - 120	7/16/2004	02:16	P107154
	Lead	51.7	49	105.5	80 - 120	7/16/2004	02:16	P107154
	Magnesium	519000	540600	96.0	80 - 120	7/16/2004	02:16	P107154
	Manganese	446	438	101.8	80 - 120	7/16/2004	02:16	P107154
	Nickel	866	846	102.4	80 - 120	7/16/2004	02:16	P107154
	Potassium	65.9			80 - 120	7/16/2004	02:16	P107154
	Selenium	43.7	47	93.0	80 - 120	7/16/2004	02:16	P107154
	Silver	209	196	106.6	80 - 120	7/16/2004	02:16	P107154
	Sodium	-15.7			80 - 120	7/16/2004	02:16	P107154
	Thallium	78.9	89	88.7	80 - 120	7/16/2004	02:16	P107154
	Vanadium	447	452	98.9	80 - 120	7/16/2004	02:16	P107154
	Zinc	975	958	101.8	80 - 120	7/16/2004	02:16	P107154

Metals
- 5a -
MATRIX SPIKE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Sample ID:** S3529-01 **Client ID:** MW-1S

Percent Solids for Sample: 0.00 **Spiked ID:** S3529-01S **Percent Solids for Spike Sample:** 0.00

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	80 - 120	3.9200		0.0600		4.00	96.5		CV

Metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Sample ID:** S3529-01 **Client ID:** MW-1SD

Percent Solids for Sample: 0.00 **Spiked ID:** S3529-01SD **Percent Solids for Spike Sample:** 0.00

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	80 - 120	4.1200		0.0600		4.00	101.5		CV

Metals
- 5a -
MATRIX SPIKE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Sample ID:** S3529-04 **Client ID:** MW-3S

Percent Solids for Sample: 0.00 **Spiked ID:** S3529-04S **Percent Solids for Spike Sample:** 0.00

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	80 - 120	2576.2000		643.3400		2000.00	96.6		P
Antimony	ug/L	80 - 120	737.5550		6.5990	U	800.00	92.2		P
Arsenic	ug/L	80 - 120	771.3950		4.8450	U	800.00	96.4		P
Barium	ug/L	80 - 120	2085.8350		108.2450	J	2000.00	98.9		P
Beryllium	ug/L	80 - 120	176.7150		1.0650	U	200.00	88.4		P
Cadmium	ug/L	80 - 120	187.3600		0.9940	U	200.00	93.7		P
Calcium	ug/L	80 - 120	135642.2000		143070.3000		5000.00	-148.6		P
Chromium	ug/L	80 - 120	357.3150		1.6200	J	400.00	88.9		P
Cobalt	ug/L	80 - 120	179.3950		2.3820	U	200.00	89.7		P
Copper	ug/L	80 - 120	295.6450		26.4650		300.00	89.7		P
Iron	ug/L	80 - 120	3680.8650		1089.3300		3000.00	86.4		P
Lead	ug/L	80 - 120	925.1900		14.1700		1000.00	91.1		P
Magnesium	ug/L	80 - 120	16275.6300		15509.7100		2000.00	38.3		P
Manganese	ug/L	80 - 120	223.5350		46.2900		200.00	88.6		P
Nickel	ug/L	80 - 120	460.5100		5.5480	U	500.00	92.1		P
Potassium	ug/L	80 - 120	27042.6000		16169.6200		10000.00	108.7		P
Selenium	ug/L	80 - 120	1875.1000		5.2350	U	2000.00	93.8		P
Silver	ug/L	80 - 120	73.0150		3.3790	U	75.00	97.4		P
Sodium	ug/L	80 - 120	118611.5000		128900.2000		3000.00	-343.0		P
Thallium	ug/L	80 - 120	1978.9800		5.7780	U	2000.00	98.9		P
Vanadium	ug/L	80 - 120	260.2900		1.9050	J	300.00	86.1		P
Zinc	ug/L	80 - 120	234.0000		42.2750		200.00	95.9		P

Metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Sample ID:** S3529-04 **Client ID:** MW-3SD

Percent Solids for Sample: 0.00 **Spiked ID:** S3529-04SD **Percent Solids for Spike Sample:** 0.00

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	80 - 120	2558.3750		643.3400		2000.00	95.8		P
Antimony	ug/L	80 - 120	734.1500		6.5990	U	800.00	91.8		P
Arsenic	ug/L	80 - 120	765.9700		4.8450	U	800.00	95.7		P
Barium	ug/L	80 - 120	2076.4100		108.2450	J	2000.00	98.4		P
Beryllium	ug/L	80 - 120	174.3600		1.0650	U	200.00	87.2		P
Cadmium	ug/L	80 - 120	185.4500		0.9940	U	200.00	92.7		P
Calcium	ug/L	80 - 120	133780.7000		143070.3000		5000.00	-185.8		P
Chromium	ug/L	80 - 120	352.0950		1.6200	J	400.00	87.6		P
Cobalt	ug/L	80 - 120	176.2800		2.3820	U	200.00	88.1		P
Copper	ug/L	80 - 120	291.8300		26.4650		300.00	88.5		P
Iron	ug/L	80 - 120	3571.8950		1089.3300		3000.00	82.8		P
Lead	ug/L	80 - 120	916.0200		14.1700		1000.00	90.2		P
Magnesium	ug/L	80 - 120	16101.6400		15509.7100		2000.00	29.6		P
Manganese	ug/L	80 - 120	220.2100		46.2900		200.00	87.0		P
Nickel	ug/L	80 - 120	455.7000		5.5480	U	500.00	91.1		P
Potassium	ug/L	80 - 120	26875.5200		16169.6200		10000.00	107.1		P
Selenium	ug/L	80 - 120	1860.4800		5.2350	U	2000.00	93.0		P
Silver	ug/L	80 - 120	72.0150		3.3790	U	75.00	96.0		P
Sodium	ug/L	80 - 120	118122.3000		128900.2000		3000.00	-359.3		P
Thallium	ug/L	80 - 120	1971.2150		5.7780	U	2000.00	98.6		P
Vanadium	ug/L	80 - 120	255.9450		1.9050	J	300.00	84.7		P
Zinc	ug/L	80 - 120	230.7100		42.2750		200.00	94.2		P

Metals
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DUPLICATE SAMPLE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Sample ID:** S3529-01 **Client ID:** MW-1D

Percent Solids for Sample: 0.00 **Duplicate ID:** S3529-01D **Percent Solids for Duplicate:** 0.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L		0.0600		0.0350	J	52.6		CV

Metals
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DUPLICATE SAMPLE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Sample ID:** S3529-01S **Client ID:** MW-1SD

Percent Solids for Sample: 0.00 **Duplicate ID:** S3529-01SD **Percent Solids for Duplicate:** 0.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L		3.9200		4.1200		5.0		CV

Metals
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DUPLICATE SAMPLE SUMMARY

Client: Chazen Companies **Level:** LOW **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Sample ID:** S3529-04 **Client ID:** MW-3D

Percent Solids for Sample: 0.00 **Duplicate ID:** S3529-04D **Percent Solids for Duplicate:** 0.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	200.0000	643.3400		643.7200		0.1		P
Antimony	ug/L		6.5990	U	6.5990	U			P
Arsenic	ug/L		4.8450	U	4.8450	U			P
Barium	ug/L		108.2450	J	108.8750	J	0.6		P
Beryllium	ug/L		1.0650	U	1.0650	U			P
Cadmium	ug/L		0.9940	U	0.9940	U			P
Calcium	ug/L		143070.3000		144210.1000		0.8		P
Chromium	ug/L		1.6200	J	1.6200	J	0.0		P
Cobalt	ug/L		2.3820	U	2.3820	U			P
Copper	ug/L	25.0000	26.4650		26.7300		1.0		P
Iron	ug/L		1089.3300		1098.6200		0.8		P
Lead	ug/L	5.0000	14.1700		15.7550		10.6		P
Magnesium	ug/L	5000.0000	15509.7100		15644.7600		0.9		P
Manganese	ug/L	15.0000	46.2900		46.9400		1.4		P
Nickel	ug/L		5.5480	U	5.5480	U			P
Potassium	ug/L	5000.0000	16169.6200		16235.2500		0.4		P
Selenium	ug/L		5.2350	U	5.2350	U			P
Silver	ug/L		3.3790	U	3.3790	U			P
Sodium	ug/L		128900.2000		129857.2000		0.7		P
Thallium	ug/L		5.7780	U	5.7780	U			P
Vanadium	ug/L		1.9050	J	1.8650	U	200.0		P
Zinc	ug/L	20.0000	42.2750		42.6300		0.8		P

Metals
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DUPLICATE SAMPLE SUMMARY

Client: Chazen Companics **Level:** LOW **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Sample ID:** S3529-04S **Client ID:** MW-3SD

Percent Solids for Sample: 0.00 **Duplicate ID:** S3529-04SD **Percent Solids for Duplicate:** 0.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L		2576.2000		2558.3750		0.7		P
Antimony	ug/L		737.5550		734.1500		0.5		P
Arsenic	ug/L		771.3950		765.9700		0.7		P
Barium	ug/L		2085.8350		2076.4100		0.5		P
Beryllium	ug/L		176.7150		174.3600		1.3		P
Cadmium	ug/L		187.3600		185.4500		1.0		P
Calcium	ug/L		135642.2000		133780.7000		1.4		P
Chromium	ug/L		357.3150		352.0950		1.5		P
Cobalt	ug/L		179.3950		176.2800		1.8		P
Copper	ug/L		295.6450		291.8300		1.3		P
Iron	ug/L		3680.8650		3571.8950		3.0		P
Lead	ug/L		925.1900		916.0200		1.0		P
Magnesium	ug/L		16275.6300		16101.6400		1.1		P
Manganese	ug/L		223.5350		220.2100		1.5		P
Nickel	ug/L		460.5100		455.7000		1.0		P
Potassium	ug/L		27042.6000		26875.5200		0.6		P
Selenium	ug/L		1875.1000		1860.4800		0.8		P
Silver	ug/L		73.0150		72.0150		1.4		P
Sodium	ug/L		118611.5000		118122.3000		0.4		P
Thallium	ug/L		1978.9800		1971.2150		0.4		P
Vanadium	ug/L		260.2900		255.9450		1.7		P
Zinc	ug/L		234.0000		230.7100		1.4		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Aqueous LCS Source: EPA-ICV **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB16258BS								
	Aluminum	ug/L	2000.0	2028.04		101.4	80.0 - 120.0	P
	Antimony	ug/L	800.0	822.48		102.8	80.0 - 120.0	P
	Arsenic	ug/L	800.0	879.72		110.0	80.0 - 120.0	P
	Barium	ug/L	2000.0	2285.84		114.3	80.0 - 120.0	P
	Beryllium	ug/L	200.0	203.34		101.7	80.0 - 120.0	P
	Cadmium	ug/L	200.0	220.32		110.2	80.0 - 120.0	P
	Calcium	ug/L	5000.0	5396.12		107.9	80.0 - 120.0	P
	Chromium	ug/L	400.0	412.26		103.1	80.0 - 120.0	P
	Cobalt	ug/L	200.0	203.30		101.6	80.0 - 120.0	P
	Copper	ug/L	300.0	291.54		97.2	80.0 - 120.0	P
	Iron	ug/L	3000.0	2738.36		91.3	80.0 - 120.0	P
	Lead	ug/L	1000.0	1028.38		102.8	80.0 - 120.0	P
	Magnesium	ug/L	2000.0	2050.86	J	102.5	80.0 - 120.0	P
	Manganese	ug/L	200.0	206.02		103.0	80.0 - 120.0	P
	Nickel	ug/L	500.0	534.50		106.9	80.0 - 120.0	P
	Potassium	ug/L	10000.0	11212.33		112.1	80.0 - 120.0	P
	Selenium	ug/L	2000.0	2188.46		109.4	80.0 - 120.0	P
	Silver	ug/L	75.0	82.68		110.2	80.0 - 120.0	P
	Sodium	ug/L	3000.0	2966.42	J	98.9	80.0 - 120.0	P
	Thallium	ug/L	2000.0	2194.40		109.7	80.0 - 120.0	P
	Vanadium	ug/L	300.0	295.35		98.4	80.0 - 120.0	P
	Zinc	ug/L	200.0	203.95		102.0	80.0 - 120.0	P

Metals

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SERIAL DILUTION SAMPLE SUMMARY

Client: Chazen Companics **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Level:** LOW **Client ID:** MW-1L

Sample ID: S3529-01 **Serial Dilution ID:** S3529-01L

Analyte	Initial Result ug/L	C	Serial Result ug/L	C	% Difference	Qual	Acceptance Limits	M
Mercury	0.06		0.16	U	100.0		10.00 %	CV

Metals

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SERIAL DILUTION SAMPLE SUMMARY

Client: Chazen Companies **SDG No.:** S3529

Contract: Chazen Companies **Lab Code:** CHEMED **Case No.:** S3529 **SAS No.:** S3529

Matrix: WATER **Level:** LOW **Client ID:** MW-3L

Sample ID: S3529-04 **Serial Dilution ID:** S3529-04L

Analyte	Initial Result ug/L	C	Serial Result ug/L	C	% Difference	Qual	Acceptance Limits	M
Aluminum	643.34		900.54	U	100.0		10.00 %	P
Antimony	6.60	U	33.00	U			10.00 %	P
Arsenic	4.84	U	24.22	U			10.00 %	P
Barium	108.24	J	96.10	J	11.2		10.00 %	P
Beryllium	1.06	U	5.32	U			10.00 %	P
Cadmium	0.99	U	4.97	U			10.00 %	P
Calcium	143070.30		153261.60		7.1		10.00 %	P
Chromium	1.62	J	6.10	U	100.0		10.00 %	P
Cobalt	2.38	U	11.91	U			10.00 %	P
Copper	26.46		19.92	J	24.7		10.00 %	P
Iron	1089.33		1108.60		1.8		10.00 %	P
L	14.17		22.78	J	60.8		10.00 %	P
Magnesium	15509.70		16079.40	J	3.7		10.00 %	P
Manganese	46.29		45.45	J	1.8		10.00 %	P
Nickel	5.55	U	27.74	U			10.00 %	P
Potassium	16169.62		10728.33	J	33.7		10.00 %	P
Selenium	5.24	U	26.18	U			10.00 %	P
Silver	3.38	U	16.90	U			10.00 %	P
Sodium	128900.20		106732.00		17.2		10.00 %	P
Thallium	5.78	U	28.89	U			10.00 %	P
Vanadium	1.90	J	9.32	U	100.0		10.00 %	P
Zinc	42.28		40.54	U	100.0		10.00 %	P

DATA USABILITY SUMMARY REPORT

for

THE CHAZEN COMPANIES

20 Gurley Avenue

Troy, NY 12182

FORMER STILLWATER BOILER HOUSE
ID#B-001975-5
SDG:S3529
Sampled 7/8/04

AQUEOUS SAMPLES for VOLATILE ORGANICS

MW-1	(S3529-1)
MW-6	(S3529-2)
MW-2	(S3529-3)
MW-3	(S3529-4)
MW-4	(S3529-5)
MW-5	(S3529-6)
TRIP BLK	(S3529-7)
MW-3DUP	(S3529-8)

DATA ASSESSMENT

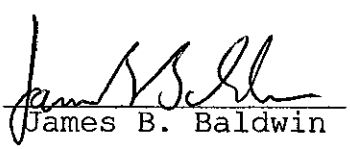
A volatile organics data package containing analytical results for seven aqueous samples and a trip blank was received from The Chazen Companies on 21Sep04. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Stillwater Boiler House site (ID#B-00197-5), were identified by Chain of Custody documents and traceable through the work of CHEMTECH, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8260B, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 06/2000. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-24, Rev 1, June 1999, Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev 2, Dec 1996) was used as a technical reference.

The methylene chloride concentrations present in MW-4 and MW-5 have been qualified as estimations because they may represent laboratory artifacts.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Reported concentrations that are felt to provide a usable estimation of the conditions being measured have been flagged "J" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:  Date: 10/18/04

James B. Baldwin

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample receipt (VTSR). Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOA samples must be analyzed within 10 days of receipt, unpreserved samples within 7 days. The holding time for soils is 10 days. Each sample delivery group, containing up to 20 samples, should include a field duplicate, a matrix spike, matrix spike duplicate, and a rinsate blank.

This sample delivery group contained seven aqueous samples and a trip blank. The samples were collected from the Former Stillwater Boiler House site on 08Jul04. They were shipped to the laboratory, via FedEx, on the day of collection. The shipment arrived, intact, on 10Jul04.

It is noted that the laboratory provided no documentation to indicate that the samples were properly chilled at the time of receipt. Although data has not been qualified, it should be noted that such omissions seriously limit the defensibility of reported data.

Sample preservation was not documented in the field custody record or verified at the time of laboratory receipt. Checks made at the time of analysis revealed that MW-2 MW-4 and MW-3DUP were not properly stabilized. However, the analysis of each sample was completed on 16Jul04, within the holding time limit for unpreserved samples. Data qualifications are not required.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank. Any sample concentration less than 5 times the level determined in a blank must be qualified. The qualification criteria is extended to ten times the concentration observed in blanks for common laboratory artifacts. These include acetone, methylene chloride and 2-butanone. Chloroform is also frequently present as a laboratory artifact.

One method blank and a trip blank were analyzed with this group of samples. Both of these blanks demonstrated acceptable chromatography and were free of targeted analyte contamination. Although not present in blanks, traces of methylene chloride were present in MW-4 (2.2 µg/l) and MW-5 (1.6 µg/l). Because methylene chloride is frequently present as a laboratory artifact, these concentrations have been flagged as estimations. Their presence should only be considered significant if consistent with site history.

MS TUNING
Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence and during every 12-hour period of instrument operation. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

CALIBRATION
Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration standards verify instrument stability.

The initial instrument calibration was performed on 14Jul04. Standards of 1, 10, 50, 100 and 200 µg/l were included. During this calibration, most analytes produced the required levels of response and demonstrated an acceptable degree of linearity.

Although each bromomethane standard produced the required level of response, poor linearity was demonstrated. This performance indicates that errors would be expected in measurements of bromomethane, but this analyte would be detected if present in samples. Because bromomethane was not detected in samples, data has been left unqualified.

A continuing calibration verification was performed on 16Jul04, prior to the analysis of program samples. Although each analyte produced the required level of response during this check, the response of tetrachloroethene demonstrated an unacceptably large positive shift. However, because tetrachloroethene was not detected in samples, data has been left unqualified.

SURROGATES
Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared; appropriate acceptance criteria applied. Although the laboratory evaluated surrogate performance by applying in-house control limits, the recovery of each surrogate also satisfied ASP requirements.

INTERNAL STANDARDS
Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated

relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than 50%. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to these limits, acceptable performance was demonstrated.

MATRIX SPIKES / MATRIX SPIKE DUPLICATES / MATRIX SPIKED BLANKS

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

A spiked sample was not analyzed with this group of samples. Recoveries for a pair of spiked blanks were reported. Although these spikes produced acceptable recoveries, they provided no indication of sample matrix interferences that might bias measurements. The laboratory should be cautioned against such omissions in the future.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects or poor laboratory technique.

Field split duplicates of MW-3 were included in this delivery group. Both of these samples were free of targeted analytes. An acceptable level of precision was demonstrated.

REPORTED ANALYTES

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples.

SUMMARY OF QUALIFIED DATA

Former Stillwater Boiler House site

Sampled 08Jul04

		BLANKS METHYLENE CHLORIDE
MW-1	(S3529-01)	
MW-6	(S3529-02)	
MW-2	(S3529-03)	
MW-3	(S3529-04)	
MW-4	(S3529-05)	2.2J
MW-5	(S3529-06)	1.6J
MW-3DUP	(S3529-08)	

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-01 Client ID: MW-1

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/16/2004 Matrix: WATER
File ID: VG071616.D Analytical Run ID: VG071404
Dilution: 1 Instrument ID: MSVOAG
Analytical Method: 8260 Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 0.33	U	5.0	0.33	ug/L
Chloromethane	74-87-3	< 0.68	U	5.0	0.68	ug/L
Vinyl chloride	75-01-4	< 0.27	U	5.0	0.27	ug/L
Bromomethane	74-83-9	< 0.78	U	5.0	0.78	ug/L
Chloroethane	75-00-3	< 0.88	U	5.0	0.88	ug/L
Trichlorofluoromethane	75-69-4	< 0.58	U	5.0	0.58	ug/L
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.69	U	5.0	0.69	ug/L
1,1-Dichloroethene	75-35-4	< 0.32	U	5.0	0.32	ug/L
)tone	67-64-1	< 3.3	U	25	3.3	ug/L
Carbon disulfide	75-15-0	< 0.39	U	5.0	0.39	ug/L
Methyl tert-butyl Ether	1634-04-4	< 0.36	U	5.0	0.36	ug/L
Methyl Acetate	79-20-9	< 0.83	U	5.0	0.83	ug/L
Methylene Chloride	75-09-2	< 0.62	U	5.0	0.62	ug/L
trans-1,2-Dichloroethene	156-60-5	< 0.51	U	5.0	0.51	ug/L
1,1-Dichloroethane	75-34-3	< 0.22	U	5.0	0.22	ug/L
Cyclohexane	110-82-7	< 0.37	U	5.0	0.37	ug/L
2-Butanone	78-93-3	< 2.8	U	25	2.8	ug/L
Carbon Tetrachloride	56-23-5	< 0.47	U	5.0	0.47	ug/L
cis-1,2-Dichloroethene	156-59-2	< 0.77	U	5.0	0.77	ug/L
Chloroform	67-66-3	< 0.58	U	5.0	0.58	ug/L
1,1,1-Trichloroethane	71-55-6	< 0.41	U	5.0	0.41	ug/L
Methylcyclohexane	108-87-2	< 0.58	U	5.0	0.58	ug/L
Benzene	71-43-2	< 0.24	U	5.0	0.24	ug/L
1,2-Dichloroethane	107-06-2	< 0.32	U	5.0	0.32	ug/L
Trichloroethene	79-01-6	< 0.67	U	5.0	0.67	ug/L
1,2-Dichloropropane	78-87-5	< 0.63	U	5.0	0.63	ug/L
Bromodichloromethane	75-27-4	< 0.35	U	5.0	0.35	ug/L
4-Methyl-2-Pentanone	108-10-1	< 1.3	U	25	1.3	ug/L
Toluene	108-88-3	< 0.39	U	5.0	0.39	ug/L
t-)-Dichloropropene	10061-02-6	< 0.42	U	5.0	0.42	ug/L
c- ,3-Dichloropropene	10061-01-5	< 0.15	U	5.0	0.15	ug/L
1,1,2-Trichloroethane	79-00-5	< 0.52	U	5.0	0.52	ug/L
2-Hexanone	591-78-6	< 0.66	U	25	0.66	ug/L
Dibromochloromethane	124-48-1	< 0.38	U	5.0	0.38	ug/L

Volatiles

SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-01 Client ID: MW-1

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/16/2004 Matrix: WATER
File ID: VG071616.D Analytical Run ID: VG071404
Dilution: 1 Instrument ID: MSVOAG
Analytical Method: 8260 Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.63	U	5.0	0.63	ug/L
Tetrachloroethene	127-18-4	< 0.33	U	5.0	0.33	ug/L
Chlorobenzene	108-90-7	< 0.37	U	5.0	0.37	ug/L
Ethyl Benzene	100-41-4	< 0.41	U	5.0	0.41	ug/L
m/p-Xylenes	136777-61-2	< 0.96	U	5.0	0.96	ug/L
o-Xylene	95-47-6	< 0.37	U	5.0	0.37	ug/L
Styrene	100-42-5	< 0.34	U	5.0	0.34	ug/L
Bromoform	75-25-2	< 0.25	U	5.0	0.25	ug/L
Isopropylbenzene	98-82-8	< 0.33	U	5.0	0.33	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	< 0.50	U	5.0	0.50	ug/L
1,3-Dichlorobenzene	541-73-1	< 0.37	U	5.0	0.37	ug/L
1,4-Dichlorobenzene	106-46-7	< 0.39	U	5.0	0.39	ug/L
1,2-Dichlorobenzene	95-50-1	< 0.37	U	5.0	0.37	ug/L
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.94	U	5.0	0.94	ug/L
1,2,4-Trichlorobenzene	120-82-1	< 0.29	U	5.0	0.29	ug/L
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	51.34	103 %	72 - 119		SPK: 50
Dibromofluoromethane	1868-53-7	53.63	107 %	85 - 115		SPK: 50
Toluene-d8	2037-26-5	52.84	106 %	81 - 120		SPK: 50
4-Bromofluorobenzene	460-00-4	53.59	107 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	981378	4.61			
1,4-Difluorobenzene	540-36-3	1696653	5.35			
Chlorobenzene-d5	3114-55-4	1765581	8.60			
1,4-Dichlorobenzene-d4	3855-82-1	921981	10.74			

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-02 | Client ID: MW-6

Date Collected: 7/8/2004 | Date Received: 7/10/2004
Date Analyzed: 7/16/2004 | Matrix: WATER
File ID: VG071617.D | Analytical Run ID: VG071404
Dilution: 1 | Instrument ID: MSVOAG
Analytical Method: 8260 | Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 0.33	U	5.0	0.33	ug/L
Chloromethane	74-87-3	< 0.68	U	5.0	0.68	ug/L
Vinyl chloride	75-01-4	< 0.27	U	5.0	0.27	ug/L
Bromomethane	74-83-9	< 0.78	U	5.0	0.78	ug/L
Chloroethane	75-00-3	< 0.88	U	5.0	0.88	ug/L
Trichlorofluoromethane	75-69-4	< 0.58	U	5.0	0.58	ug/L
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.69	U	5.0	0.69	ug/L
1,1-Dichloroethene	75-35-4	< 0.32	U	5.0	0.32	ug/L
)tone	67-64-1	< 3.3	U	25	3.3	ug/L
Carbon disulfide	75-15-0	< 0.39	U	5.0	0.39	ug/L
Methyl tert-butyl Ether	1634-04-4	< 0.36	U	5.0	0.36	ug/L
Methyl Acetate	79-20-9	< 0.83	U	5.0	0.83	ug/L
Methylene Chloride	75-09-2	< 0.62	U	5.0	0.62	ug/L
trans-1,2-Dichloroethene	156-60-5	< 0.51	U	5.0	0.51	ug/L
1,1-Dichloroethane	75-34-3	< 0.22	U	5.0	0.22	ug/L
Cyclohexane	110-82-7	< 0.37	U	5.0	0.37	ug/L
2-Butanone	78-93-3	< 2.8	U	25	2.8	ug/L
Carbon Tetrachloride	56-23-5	< 0.47	U	5.0	0.47	ug/L
cis-1,2-Dichloroethene	156-59-2	< 0.77	U	5.0	0.77	ug/L
Chloroform	67-66-3	< 0.58	U	5.0	0.58	ug/L
1,1,1-Trichloroethane	71-55-6	< 0.41	U	5.0	0.41	ug/L
Methylcyclohexane	108-87-2	< 0.58	U	5.0	0.58	ug/L
Benzene	71-43-2	< 0.24	U	5.0	0.24	ug/L
1,2-Dichloroethane	107-06-2	< 0.32	U	5.0	0.32	ug/L
Trichloroethene	79-01-6	< 0.67	U	5.0	0.67	ug/L
1,2-Dichloropropane	78-87-5	< 0.63	U	5.0	0.63	ug/L
Bromodichloromethane	75-27-4	< 0.35	U	5.0	0.35	ug/L
4-Methyl-2-Pentanone	108-10-1	< 1.3	U	25	1.3	ug/L
Toluene	108-88-3	< 0.39	U	5.0	0.39	ug/L
?-Dichloropropene	10061-02-6	< 0.42	U	5.0	0.42	ug/L
cis-1,3-Dichloropropene	10061-01-5	< 0.15	U	5.0	0.15	ug/L
1,1,2-Trichloroethane	79-00-5	< 0.52	U	5.0	0.52	ug/L
2-Hexanone	591-78-6	< 0.66	U	25	0.66	ug/L
Dibromochloromethane	124-48-1	< 0.38	U	5.0	0.38	ug/L

Chemtech

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-02 Client ID: MW-6

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/16/2004 Matrix: WATER
File ID: VG071617.D Analytical Run ID: VG071404
Dilution: 1 Instrument ID: MSVOAG
Analytical Method: 8260 Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.63	U	5.0	0.63	ug/L
Tetrachloroethene	127-18-4	< 0.33	U	5.0	0.33	ug/L
Chlorobenzene	108-90-7	< 0.37	U	5.0	0.37	ug/L
Ethyl Benzene	100-41-4	< 0.41	U	5.0	0.41	ug/L
m/p-Xylenes	136777-61-2	< 0.96	U	5.0	0.96	ug/L
o-Xylene	95-47-6	< 0.37	U	5.0	0.37	ug/L
Styrene	100-42-5	< 0.34	U	5.0	0.34	ug/L
Bromoform	75-25-2	< 0.25	U	5.0	0.25	ug/L
Isopropylbenzene	98-82-8	< 0.33	U	5.0	0.33	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	< 0.50	U	5.0	0.50	ug/L
1,3-Dichlorobenzene	541-73-1	< 0.37	U	5.0	0.37	ug/L
1,4-Dichlorobenzene	106-46-7	< 0.39	U	5.0	0.39	ug/L
1,2-Dichlorobenzene	95-50-1	< 0.37	U	5.0	0.37	ug/L
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.94	U	5.0	0.94	ug/L
1,2,4-Trichlorobenzene	120-82-1	< 0.29	U	5.0	0.29	ug/L
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	52.58	105 %	72 - 119		SPK: 50
Dibromofluoromethane	1868-53-7	51.71	103 %	85 - 115		SPK: 50
Toluene-d8	2037-26-5	49.78	100 %	81 - 120		SPK: 50
4-Bromofluorobenzene	460-00-4	52.61	105 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	951893	4.61			
1,4-Difluorobenzene	540-36-3	1672103	5.35			
Chlorobenzene-d5	3114-55-4	1739901	8.60			
1,4-Dichlorobenzene-d4	3855-82-1	902964	10.74			

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-03 Client ID: MW-2

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/16/2004 Matrix: WATER
File ID: VG071618.D Analytical Run ID: VG071404
Dilution: 1 Instrument ID: MSVOAG
Analytical Method: 8260 Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 0.33	U	5.0	0.33	ug/L
Chloromethane	74-87-3	< 0.68	U	5.0	0.68	ug/L
Vinyl chloride	75-01-4	< 0.27	U	5.0	0.27	ug/L
Bromomethane	74-83-9	< 0.78	U	5.0	0.78	ug/L
Chloroethane	75-00-3	< 0.88	U	5.0	0.88	ug/L
Trichlorofluoromethane	75-69-4	< 0.58	U	5.0	0.58	ug/L
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.69	U	5.0	0.69	ug/L
1,1-Dichloroethene	75-35-4	< 0.32	U	5.0	0.32	ug/L
tone	67-64-1	< 3.3	U	25	3.3	ug/L
arbon disulfide	75-15-0	< 0.39	U	5.0	0.39	ug/L
Methyl tert-butyl Ether	1634-04-4	< 0.36	U	5.0	0.36	ug/L
Methyl Acetate	79-20-9	< 0.83	U	5.0	0.83	ug/L
Methylene Chloride	75-09-2	< 0.62	U	5.0	0.62	ug/L
trans-1,2-Dichloroethene	156-60-5	< 0.51	U	5.0	0.51	ug/L
1,1-Dichloroethane	75-34-3	< 0.22	U	5.0	0.22	ug/L
Cyclohexane	110-82-7	< 0.37	U	5.0	0.37	ug/L
2-Butanone	78-93-3	< 2.8	U	25	2.8	ug/L
Carbon Tetrachloride	56-23-5	< 0.47	U	5.0	0.47	ug/L
cis-1,2-Dichloroethene	156-59-2	< 0.77	U	5.0	0.77	ug/L
Chloroform	67-66-3	< 0.58	U	5.0	0.58	ug/L
1,1,1-Trichloroethane	71-55-6	< 0.41	U	5.0	0.41	ug/L
Methylcyclohexane	108-87-2	< 0.58	U	5.0	0.58	ug/L
Benzene	71-43-2	< 0.24	U	5.0	0.24	ug/L
1,2-Dichloroethane	107-06-2	< 0.32	U	5.0	0.32	ug/L
Trichloroethene	79-01-6	< 0.67	U	5.0	0.67	ug/L
1,2-Dichloropropane	78-87-5	< 0.63	U	5.0	0.63	ug/L
Bromodichloromethane	75-27-4	< 0.35	U	5.0	0.35	ug/L
4-Methyl-2-Pentanone	108-10-1	< 1.3	U	25	1.3	ug/L
Toluene	108-88-3	< 0.39	U	5.0	0.39	ug/L
t- 3-Dichloropropene	10061-02-6	< 0.42	U	5.0	0.42	ug/L
c- ,3-Dichloropropene	10061-01-5	< 0.15	U	5.0	0.15	ug/L
1,1,2-Trichloroethane	79-00-5	< 0.52	U	5.0	0.52	ug/L
2-Hexanone	591-78-6	< 0.66	U	25	0.66	ug/L
Dibromochloromethane	124-48-1	< 0.38	U	5.0	0.38	ug/L

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-03 **Client ID:** MW-2

Date Collected: 7/8/2004 **Date Received:** 7/10/2004
Date Analyzed: 7/16/2004 **Matrix:** WATER
File ID: VG071618.D **Analytical Run ID:** VG071404
Dilution: 1 **Instrument ID:** MSVOAG
Analytical Method: 8260 **Associated Blank:** VBG0716W2
Sample Wt/Vol: 5.0 **Units:** mL **Soil Extract Vol:**
Soil Aliquot Vol: **% Moisture:** 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.63	U	5.0	0.63	ug/L
Tetrachloroethene	127-18-4	< 0.33	U	5.0	0.33	ug/L
Chlorobenzene	108-90-7	< 0.37	U	5.0	0.37	ug/L
Ethyl Benzene	100-41-4	< 0.41	U	5.0	0.41	ug/L
m/p-Xylenes	136777-61-2	< 0.96	U	5.0	0.96	ug/L
o-Xylene	95-47-6	< 0.37	U	5.0	0.37	ug/L
Styrene	100-42-5	< 0.34	U	5.0	0.34	ug/L
Bromoform	75-25-2	< 0.25	U	5.0	0.25	ug/L
Isopropylbenzene	98-82-8	< 0.33	U	5.0	0.33	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	< 0.50	U	5.0	0.50	ug/L
1,3-Dichlorobenzene	541-73-1	< 0.37	U	5.0	0.37	ug/L
1,4-Dichlorobenzene	106-46-7	< 0.39	U	5.0	0.39	ug/L
1,2-Dichlorobenzene	95-50-1	< 0.37	U	5.0	0.37	ug/L
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.94	U	5.0	0.94	ug/L
1,2,4-Trichlorobenzene	120-82-1	< 0.29	U	5.0	0.29	ug/L
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	55	110 %	72 - 119		SPK: 50
Dibromofluoromethane	1868-53-7	52.7	105 %	85 - 115		SPK: 50
Toluene-d8	2037-26-5	53.4	107 %	81 - 120		SPK: 50
4-Bromofluorobenzene	460-00-4	54.78	110 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	896184	4.61			
1,4-Difluorobenzene	540-36-3	1597223	5.34			
Chlorobenzene-d5	3114-55-4	1711623	8.59			
1,4-Dichlorobenzene-d4	3855-82-1	861685	10.74			

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-04 Client ID: MW-3

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/16/2004 Matrix: WATER
File ID: VG071619.D Analytical Run ID: VG071404
Dilution: 1 Instrument ID: MSVOAG
Analytical Method: 8260 Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 0.33	U	5.0	0.33	ug/L
Chloromethane	74-87-3	< 0.68	U	5.0	0.68	ug/L
Vinyl chloride	75-01-4	< 0.27	U	5.0	0.27	ug/L
Bromomethane	74-83-9	< 0.78	U	5.0	0.78	ug/L
Chloroethane	75-00-3	< 0.88	U	5.0	0.88	ug/L
Trichlorofluoromethane	75-69-4	< 0.58	U	5.0	0.58	ug/L
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.69	U	5.0	0.69	ug/L
1,1-Dichloroethene	75-35-4	< 0.32	U	5.0	0.32	ug/L
tone	67-64-1	< 3.3	U	25	3.3	ug/L
Carbon disulfide	75-15-0	< 0.39	U	5.0	0.39	ug/L
Methyl tert-butyl Ether	1634-04-4	< 0.36	U	5.0	0.36	ug/L
Methyl Acetate	79-20-9	< 0.83	U	5.0	0.83	ug/L
Methylene Chloride	75-09-2	< 0.62	U	5.0	0.62	ug/L
trans-1,2-Dichloroethene	156-60-5	< 0.51	U	5.0	0.51	ug/L
1,1-Dichloroethane	75-34-3	< 0.22	U	5.0	0.22	ug/L
Cyclohexane	110-82-7	< 0.37	U	5.0	0.37	ug/L
2-Butanone	78-93-3	< 2.8	U	25	2.8	ug/L
Carbon Tetrachloride	56-23-5	< 0.47	U	5.0	0.47	ug/L
cis-1,2-Dichloroethene	156-59-2	< 0.77	U	5.0	0.77	ug/L
Chloroform	67-66-3	< 0.58	U	5.0	0.58	ug/L
1,1,1-Trichloroethane	71-55-6	< 0.41	U	5.0	0.41	ug/L
Methylcyclohexane	108-87-2	< 0.58	U	5.0	0.58	ug/L
Benzene	71-43-2	< 0.24	U	5.0	0.24	ug/L
1,2-Dichloroethane	107-06-2	< 0.32	U	5.0	0.32	ug/L
Trichloroethene	79-01-6	< 0.67	U	5.0	0.67	ug/L
1,2-Dichloropropane	78-87-5	< 0.63	U	5.0	0.63	ug/L
Bromodichloromethane	75-27-4	< 0.35	U	5.0	0.35	ug/L
4-Methyl-2-Pentanone	108-10-1	< 1.3	U	25	1.3	ug/L
Toluene	108-88-3	< 0.39	U	5.0	0.39	ug/L
t- 3-Dichloropropene	10061-02-6	< 0.42	U	5.0	0.42	ug/L
c- ,3-Dichloropropene	10061-01-5	< 0.15	U	5.0	0.15	ug/L
1,1,2-Trichloroethane	79-00-5	< 0.52	U	5.0	0.52	ug/L
2-Hexanone	591-78-6	< 0.66	U	25	0.66	ug/L
Dibromochloromethane	124-48-1	< 0.38	U	5.0	0.38	ug/L

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-04 | Client ID: MW-3

Date Collected: 7/8/2004 | Date Received: 7/10/2004
Date Analyzed: 7/16/2004 | Matrix: WATER
File ID: VG071619.D | Analytical Run ID: VG071404
Dilution: 1 | Instrument ID: MSVOAG
Analytical Method: 8260 | Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.63	U	5.0	0.63	ug/L
Tetrachloroethene	127-18-4	< 0.33	U	5.0	0.33	ug/L
Chlorobenzene	108-90-7	< 0.37	U	5.0	0.37	ug/L
Ethyl Benzene	100-41-4	< 0.41	U	5.0	0.41	ug/L
m/p-Xylenes	136777-61-2	< 0.96	U	5.0	0.96	ug/L
o-Xylene	95-47-6	< 0.37	U	5.0	0.37	ug/L
Styrene	100-42-5	< 0.34	U	5.0	0.34	ug/L
Bromoform	75-25-2	< 0.25	U	5.0	0.25	ug/L
Isopropylbenzene	98-82-8	< 0.33	U	5.0	0.33	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	< 0.50	U	5.0	0.50	ug/L
1,3-Dichlorobenzene	541-73-1	< 0.37	U	5.0	0.37	ug/L
1,4-Dichlorobenzene	106-46-7	< 0.39	U	5.0	0.39	ug/L
1,2-Dichlorobenzene	95-50-1	< 0.37	U	5.0	0.37	ug/L
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.94	U	5.0	0.94	ug/L
1,2,4-Trichlorobenzene	120-82-1	< 0.29	U	5.0	0.29	ug/L
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	53.04	106 %	72 - 119		SPK: 50
Dibromofluoromethane	1868-53-7	53.35	107 %	85 - 115		SPK: 50
Toluene-d8	2037-26-5	51.13	102 %	81 - 120		SPK: 50
4-Bromofluorobenzene	460-00-4	53.14	106 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	909216	4.61			
1,4-Difluorobenzene	540-36-3	1623326	5.35			
Chlorobenzene-d5	3114-55-4	1710673	8.60			
1,4-Dichlorobenzene-d4	3855-82-1	857189	10.73			

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-05 Client ID: MW-4

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/16/2004 Matrix: WATER
File ID: VG071620.D Analytical Run ID: VG071404
Dilution: 1 Instrument ID: MSVOAG
Analytical Method: 8260 Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 0.33	U	5.0	0.33	ug/L
Chloromethane	74-87-3	< 0.68	U	5.0	0.68	ug/L
Vinyl chloride	75-01-4	< 0.27	U	5.0	0.27	ug/L
Bromomethane	74-83-9	< 0.78	U	5.0	0.78	ug/L
Chloroethane	75-00-3	< 0.88	U	5.0	0.88	ug/L
Trichlorofluoromethane	75-69-4	< 0.58	U	5.0	0.58	ug/L
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.69	U	5.0	0.69	ug/L
1,1-Dichloroethene	75-35-4	< 0.32	U	5.0	0.32	ug/L
)one	67-64-1	< 3.3	U	25	3.3	ug/L
Carbon disulfide	75-15-0	< 0.39	U	5.0	0.39	ug/L
Methyl tert-butyl Ether	1634-04-4	< 0.36	U	5.0	0.36	ug/L
Methyl Acetate	79-20-9	< 0.83	U	5.0	0.83	ug/L
Methylene Chloride	75-09-2	2.2	J ~~J~~	5.0	0.62	ug/L
trans-1,2-Dichloroethene	156-60-5	< 0.51	U	5.0	0.51	ug/L
1,1-Dichloroethane	75-34-3	< 0.22	U	5.0	0.22	ug/L
Cyclohexane	110-82-7	< 0.37	U	5.0	0.37	ug/L
2-Butanone	78-93-3	< 2.8	U	25	2.8	ug/L
Carbon Tetrachloride	56-23-5	< 0.47	U	5.0	0.47	ug/L
cis-1,2-Dichloroethene	156-59-2	< 0.77	U	5.0	0.77	ug/L
Chloroform	67-66-3	< 0.58	U	5.0	0.58	ug/L
1,1,1-Trichloroethane	71-55-6	< 0.41	U	5.0	0.41	ug/L
Methylcyclohexane	108-87-2	< 0.58	U	5.0	0.58	ug/L
Benzene	71-43-2	< 0.24	U	5.0	0.24	ug/L
1,2-Dichloroethane	107-06-2	< 0.32	U	5.0	0.32	ug/L
Trichloroethene	79-01-6	< 0.67	U	5.0	0.67	ug/L
1,2-Dichloropropane	78-87-5	< 0.63	U	5.0	0.63	ug/L
Bromodichloromethane	75-27-4	< 0.35	U	5.0	0.35	ug/L
4-Methyl-2-Pentanone	108-10-1	< 1.3	U	25	1.3	ug/L
Toluene	108-88-3	< 0.39	U	5.0	0.39	ug/L
t)Dichloropropene	10061-02-6	< 0.42	U	5.0	0.42	ug/L
ci ,3-Dichloropropene	10061-01-5	< 0.15	U	5.0	0.15	ug/L
1,1,2-Trichloroethane	79-00-5	< 0.52	U	5.0	0.52	ug/L
2-Hexanone	591-78-6	< 0.66	U	25	0.66	ug/L
Dibromochloromethane	124-48-1	< 0.38	U	5.0	0.38	ug/L

Volatiles
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SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-05 Client ID: MW-4

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/16/2004 Matrix: WATER
File ID: VG071620.D Analytical Run ID: VG071404
Dilution: 1 Instrument ID: MSVOAG
Analytical Method: 8260 Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.63	U	5.0	0.63	ug/L
Tetrachloroethene	127-18-4	< 0.33	U	5.0	0.33	ug/L
Chlorobenzene	108-90-7	< 0.37	U	5.0	0.37	ug/L
Ethyl Benzene	100-41-4	< 0.41	U	5.0	0.41	ug/L
m/p-Xylenes	136777-61-2	< 0.96	U	5.0	0.96	ug/L
o-Xylene	95-47-6	< 0.37	U	5.0	0.37	ug/L
Styrene	100-42-5	< 0.34	U	5.0	0.34	ug/L
Bromoform	75-25-2	< 0.25	U	5.0	0.25	ug/L
Isopropylbenzene	98-82-8	< 0.33	U	5.0	0.33	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	< 0.50	U	5.0	0.50	ug/L
1,3-Dichlorobenzene	541-73-1	< 0.37	U	5.0	0.37	ug/L
1,4-Dichlorobenzene	106-46-7	< 0.39	U	5.0	0.39	ug/L
1,2-Dichlorobenzene	95-50-1	< 0.37	U	5.0	0.37	ug/L
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.94	U	5.0	0.94	ug/L
1,2,4-Trichlorobenzene	120-82-1	< 0.29	U	5.0	0.29	ug/L
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	57.35	115 %	72 - 119		SPK: 50
Dibromofluoromethane	1868-53-7	53.37	107 %	85 - 115		SPK: 50
Toluene-d8	2037-26-5	53.64	107 %	81 - 120		SPK: 50
4-Bromofluorobenzene	460-00-4	54.56	109 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	863466	4.61			
1,4-Difluorobenzene	540-36-3	1560124	5.34			
Chlorobenzene-d5	3114-55-4	1677283	8.60			
1,4-Dichlorobenzene-d4	3855-82-1	850597	10.74			

Volatiles
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SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-06 Client ID: MW-5

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/16/2004 Matrix: WATER
File ID: VG071621.D Analytical Run ID: VG071404
Dilution: 1 Instrument ID: MSVOAG
Analytical Method: 8260 Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 0.33	U	5.0	0.33	ug/L
Chloromethane	74-87-3	< 0.68	U	5.0	0.68	ug/L
Vinyl chloride	75-01-4	< 0.27	U	5.0	0.27	ug/L
Bromomethane	74-83-9	< 0.78	U	5.0	0.78	ug/L
Chloroethane	75-00-3	< 0.88	U	5.0	0.88	ug/L
Trichlorofluoromethane	75-69-4	< 0.58	U	5.0	0.58	ug/L
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.69	U	5.0	0.69	ug/L
1,1-Dichloroethene	75-35-4	< 0.32	U	5.0	0.32	ug/L
)one	67-64-1	< 3.3	U	25	3.3	ug/L
Carbon disulfide	75-15-0	< 0.39	U	5.0	0.39	ug/L
Methyl tert-butyl Ether	1634-04-4	< 0.36	U	5.0	0.36	ug/L
Methyl Acetate	79-20-9	< 0.83	U	5.0	0.83	ug/L
Methylene Chloride	75-09-2	1.6 J	J	5.0	0.62	ug/L
trans-1,2-Dichloroethene	156-60-5	< 0.51	U	5.0	0.51	ug/L
1,1-Dichloroethane	75-34-3	< 0.22	U	5.0	0.22	ug/L
Cyclohexane	110-82-7	< 0.37	U	5.0	0.37	ug/L
2-Butanone	78-93-3	< 2.8	U	25	2.8	ug/L
Carbon Tetrachloride	56-23-5	< 0.47	U	5.0	0.47	ug/L
cis-1,2-Dichloroethene	156-59-2	< 0.77	U	5.0	0.77	ug/L
Chloroform	67-66-3	< 0.58	U	5.0	0.58	ug/L
1,1,1-Trichloroethane	71-55-6	< 0.41	U	5.0	0.41	ug/L
Methylcyclohexane	108-87-2	< 0.58	U	5.0	0.58	ug/L
Benzene	71-43-2	< 0.24	U	5.0	0.24	ug/L
1,2-Dichloroethane	107-06-2	< 0.32	U	5.0	0.32	ug/L
Trichloroethene	79-01-6	< 0.67	U	5.0	0.67	ug/L
1,2-Dichloropropane	78-87-5	< 0.63	U	5.0	0.63	ug/L
Bromodichloromethane	75-27-4	< 0.35	U	5.0	0.35	ug/L
4-Methyl-2-Pentanone	108-10-1	< 1.3	U	25	1.3	ug/L
Toluene	108-88-3	< 0.39	U	5.0	0.39	ug/L
t)-Dichloropropene	10061-02-6	< 0.42	U	5.0	0.42	ug/L
cis-1,3-Dichloropropene	10061-01-5	< 0.15	U	5.0	0.15	ug/L
1,1,2-Trichloroethane	79-00-5	< 0.52	U	5.0	0.52	ug/L
2-Hexanone	591-78-6	< 0.66	U	25	0.66	ug/L
Dibromochloromethane	124-48-1	< 0.38	U	5.0	0.38	ug/L

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-06 Client ID: MW-5

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/16/2004 Matrix: WATER
File ID: VG071621.D Analytical Run ID: VG071404
Dilution: 1 Instrument ID: MSVOAG
Analytical Method: 8260 Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.63	U	5.0	0.63	ug/L
Tetrachloroethene	127-18-4	< 0.33	U	5.0	0.33	ug/L
Chlorobenzene	108-90-7	< 0.37	U	5.0	0.37	ug/L
Ethyl Benzene	100-41-4	< 0.41	U	5.0	0.41	ug/L
m/p-Xylenes	136777-61-2	< 0.96	U	5.0	0.96	ug/L
o-Xylene	95-47-6	< 0.37	U	5.0	0.37	ug/L
Styrene	100-42-5	< 0.34	U	5.0	0.34	ug/L
Bromoform	75-25-2	< 0.25	U	5.0	0.25	ug/L
Isopropylbenzene	98-82-8	< 0.33	U	5.0	0.33	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	< 0.50	U	5.0	0.50	ug/L
1,3-Dichlorobenzene	541-73-1	< 0.37	U	5.0	0.37	ug/L
1,4-Dichlorobenzene	106-46-7	< 0.39	U	5.0	0.39	ug/L
1,2-Dichlorobenzene	95-50-1	< 0.37	U	5.0	0.37	ug/L
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.94	U	5.0	0.94	ug/L
1,2,4-Trichlorobenzene	120-82-1	< 0.29	U	5.0	0.29	ug/L
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	56.72	113 %	72 - 119		SPK: 50
Dibromofluoromethane	1868-53-7	51.32	103 %	85 - 115		SPK: 50
Toluene-d8	2037-26-5	49.7	99 %	81 - 120		SPK: 50
4-Bromofluorobenzene	460-00-4	52.18	104 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	856931	4.61			
1,4-Difluorobenzene	540-36-3	1617324	5.35			
Chlorobenzene-d5	3114-55-4	1650586	8.59			
1,4-Dichlorobenzene-d4	3855-82-1	836688	10.74			

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-07 | Client ID: TRIPBLANK

Date Collected: 7/8/2004 | Date Received: 7/10/2004
Date Analyzed: 7/16/2004 | Matrix: WATER
File ID: VG071607.D | Analytical Run ID: VG071404
Dilution: 1 | Instrument ID: MSVOAG
Analytical Method: 8260 | Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 0.33	U	5.0	0.33	ug/L
Chloromethane	74-87-3	< 0.68	U	5.0	0.68	ug/L
Vinyl chloride	75-01-4	< 0.27	U	5.0	0.27	ug/L
Bromomethane	74-83-9	< 0.78	U	5.0	0.78	ug/L
Chloroethane	75-00-3	< 0.88	U	5.0	0.88	ug/L
Trichlorofluoromethane	75-69-4	< 0.58	U	5.0	0.58	ug/L
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.69	U	5.0	0.69	ug/L
1,1-Dichloroethene	75-35-4	< 0.32	U	5.0	0.32	ug/L
tone	67-64-1	< 3.3	U	25	3.3	ug/L
Carbon disulfide	75-15-0	< 0.39	U	5.0	0.39	ug/L
Methyl tert-butyl Ether	1634-04-4	< 0.36	U	5.0	0.36	ug/L
Methyl Acetate	79-20-9	< 0.83	U	5.0	0.83	ug/L
Methylene Chloride	75-09-2	< 0.62	U	5.0	0.62	ug/L
trans-1,2-Dichloroethene	156-60-5	< 0.51	U	5.0	0.51	ug/L
1,1-Dichloroethane	75-34-3	< 0.22	U	5.0	0.22	ug/L
Cyclohexane	110-82-7	< 0.37	U	5.0	0.37	ug/L
2-Butanone	78-93-3	< 2.8	U	25	2.8	ug/L
Carbon Tetrachloride	56-23-5	< 0.47	U	5.0	0.47	ug/L
cis-1,2-Dichloroethene	156-59-2	< 0.77	U	5.0	0.77	ug/L
Chloroform	67-66-3	< 0.58	U	5.0	0.58	ug/L
1,1,1-Trichloroethane	71-55-6	< 0.41	U	5.0	0.41	ug/L
Methylcyclohexane	108-87-2	< 0.58	U	5.0	0.58	ug/L
Benzene	71-43-2	< 0.24	U	5.0	0.24	ug/L
1,2-Dichloroethane	107-06-2	< 0.32	U	5.0	0.32	ug/L
Trichloroethene	79-01-6	< 0.67	U	5.0	0.67	ug/L
1,2-Dichloropropane	78-87-5	< 0.63	U	5.0	0.63	ug/L
Bromodichloromethane	75-27-4	< 0.35	U	5.0	0.35	ug/L
4-Methyl-2-Pentanone	108-10-1	< 1.3	U	25	1.3	ug/L
Toluene	108-88-3	< 0.39	U	5.0	0.39	ug/L
t [illegible]-Dichloropropene	10061-02-6	< 0.42	U	5.0	0.42	ug/L
c[illegible],3-Dichloropropene	10061-01-5	< 0.15	U	5.0	0.15	ug/L
1,1,2-Trichloroethane	79-00-5	< 0.52	U	5.0	0.52	ug/L
2-Hexanone	591-78-6	< 0.66	U	25	0.66	ug/L
Dibromochloromethane	124-48-1	< 0.38	U	5.0	0.38	ug/L

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-07 | Client ID: TRIPBLANK

Date Collected: 7/8/2004 | Date Received: 7/10/2004
Date Analyzed: 7/16/2004 | Matrix: WATER
File ID: VG071607.D | Analytical Run ID: VG071404
Dilution: 1 | Instrument ID: MSVOAG
Analytical Method: 8260 | Associated Blank: VBG0716W2
Sample Wt/Wol: 5.0 Units: mL | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.63	U	5.0	0.63	ug/L
Tetrachloroethene	127-18-4	< 0.33	U	5.0	0.33	ug/L
Chlorobenzene	108-90-7	< 0.37	U	5.0	0.37	ug/L
Ethyl Benzene	100-41-4	< 0.41	U	5.0	0.41	ug/L
m/p-Xylenes	136777-61-2	< 0.96	U	5.0	0.96	ug/L
o-Xylene	95-47-6	< 0.37	U	5.0	0.37	ug/L
Styrene	100-42-5	< 0.34	U	5.0	0.34	ug/L
Bromoform	75-25-2	< 0.25	U	5.0	0.25	ug/L
Isopropylbenzene	98-82-8	< 0.33	U	5.0	0.33	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	< 0.50	U	5.0	0.50	ug/L
1,3-Dichlorobenzene	541-73-1	< 0.37	U	5.0	0.37	ug/L
1,4-Dichlorobenzene	106-46-7	< 0.39	U	5.0	0.39	ug/L
1,2-Dichlorobenzene	95-50-1	< 0.37	U	5.0	0.37	ug/L
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.94	U	5.0	0.94	ug/L
1,2,4-Trichlorobenzene	120-82-1	< 0.29	U	5.0	0.29	ug/L
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	54.55	109 %	72 - 119		SPK: 50
Dibromofluoromethane	1868-53-7	51.6	103 %	85 - 115		SPK: 50
Toluene-d8	2037-26-5	49.24	98 %	81 - 120		SPK: 50
4-Bromofluorobenzene	460-00-4	50.13	100 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	901660	4.61			
1,4-Difluorobenzene	540-36-3	1660210	5.35			
Chlorobenzene-d5	3114-55-4	1704055	8.60			
1,4-Dichlorobenzene-d4	3855-82-1	841844	10.74			

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-08 | Client ID: MW-3DUP

Date Collected: 7/8/2004 | Date Received: 7/10/2004
Date Analyzed: 7/16/2004 | Matrix: WATER
File ID: VG071622.D | Analytical Run ID: VG071404
Dilution: 1 | Instrument ID: MSVOAG
Analytical Method: 8260 | Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL | Soil Extract Vol:
Soil Aliquot Vol: | % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 0.33	U	5.0	0.33	ug/L
Chloromethane	74-87-3	< 0.68	U	5.0	0.68	ug/L
Vinyl chloride	75-01-4	< 0.27	U	5.0	0.27	ug/L
Bromomethane	74-83-9	< 0.78	U	5.0	0.78	ug/L
Chloroethane	75-00-3	< 0.88	U	5.0	0.88	ug/L
Trichlorofluoromethane	75-69-4	< 0.58	U	5.0	0.58	ug/L
1,1,2-Trichlorotrifluoroethane	76-13-1	< 0.69	U	5.0	0.69	ug/L
1,1-Dichloroethene	75-35-4	< 0.32	U	5.0	0.32	ug/L
tone	67-64-1	< 3.3	U	25	3.3	ug/L
Carbon disulfide	75-15-0	< 0.39	U	5.0	0.39	ug/L
Methyl tert-butyl Ether	1634-04-4	< 0.36	U	5.0	0.36	ug/L
Methyl Acetate	79-20-9	< 0.83	U	5.0	0.83	ug/L
Methylene Chloride	75-09-2	< 0.62	U	5.0	0.62	ug/L
trans-1,2-Dichloroethene	156-60-5	< 0.51	U	5.0	0.51	ug/L
1,1-Dichloroethane	75-34-3	< 0.22	U	5.0	0.22	ug/L
Cyclohexane	110-82-7	< 0.37	U	5.0	0.37	ug/L
2-Butanone	78-93-3	< 2.8	U	25	2.8	ug/L
Carbon Tetrachloride	56-23-5	< 0.47	U	5.0	0.47	ug/L
cis-1,2-Dichloroethene	156-59-2	< 0.77	U	5.0	0.77	ug/L
Chloroform	67-66-3	< 0.58	U	5.0	0.58	ug/L
1,1,1-Trichloroethane	71-55-6	< 0.41	U	5.0	0.41	ug/L
Methylcyclohexane	108-87-2	< 0.58	U	5.0	0.58	ug/L
Benzene	71-43-2	< 0.24	U	5.0	0.24	ug/L
1,2-Dichloroethane	107-06-2	< 0.32	U	5.0	0.32	ug/L
Trichloroethene	79-01-6	< 0.67	U	5.0	0.67	ug/L
1,2-Dichloropropane	78-87-5	< 0.63	U	5.0	0.63	ug/L
Bromodichloromethane	75-27-4	< 0.35	U	5.0	0.35	ug/L
4-Methyl-2-Pentanone	108-10-1	< 1.3	U	25	1.3	ug/L
Toluene	108-88-3	< 0.39	U	5.0	0.39	ug/L
t[illegible]-Dichloropropene	10061-02-6	< 0.42	U	5.0	0.42	ug/L
[illegible]3-Dichloropropene	10061-01-5	< 0.15	U	5.0	0.15	ug/L
1,1,2-Trichloroethane	79-00-5	< 0.52	U	5.0	0.52	ug/L
2-Hexanone	591-78-6	< 0.66	U	25	0.66	ug/L
Dibromochloromethane	124-48-1	< 0.38	U	5.0	0.38	ug/L

Volatiles
SW-846

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-08 Client ID: MW-3DUP

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/16/2004 Matrix: WATER
File ID: VG071622.D Analytical Run ID: VG071404
Dilution: 1 Instrument ID: MSVOAG
Analytical Method: 8260 Associated Blank: VBG0716W2
Sample Wt/Vol: 5.0 Units: mL Soil Extract Vol:
Soil Aliquot Vol: % Moisture: 100

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2-Dibromoethane	106-93-4	< 0.63	U	5.0	0.63	ug/L
Tetrachloroethene	127-18-4	< 0.33	U	5.0	0.33	ug/L
Chlorobenzene	108-90-7	< 0.37	U	5.0	0.37	ug/L
Ethyl Benzene	100-41-4	< 0.41	U	5.0	0.41	ug/L
m/p-Xylenes	136777-61-2	< 0.96	U	5.0	0.96	ug/L
o-Xylene	95-47-6	< 0.37	U	5.0	0.37	ug/L
Styrene	100-42-5	< 0.34	U	5.0	0.34	ug/L
Bromoform	75-25-2	< 0.25	U	5.0	0.25	ug/L
Isopropylbenzene	98-82-8	< 0.33	U	5.0	0.33	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	< 0.50	U	5.0	0.50	ug/L
1,3-Dichlorobenzene	541-73-1	< 0.37	U	5.0	0.37	ug/L
1,4-Dichlorobenzene	106-46-7	< 0.39	U	5.0	0.39	ug/L
1,2-Dichlorobenzene	95-50-1	< 0.37	U	5.0	0.37	ug/L
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.94	U	5.0	0.94	ug/L
1,2,4-Trichlorobenzene	120-82-1	< 0.29	U	5.0	0.29	ug/L
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	55.54	111 %	72 - 119		SPK: 50
Dibromofluoromethane	1868-53-7	49.12	98 %	85 - 115		SPK: 50
Toluene-d8	2037-26-5	49.74	99 %	81 - 120		SPK: 50
4-Bromofluorobenzene	460-00-4	52.45	105 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	850861	4.60			
1,4-Difluorobenzene	540-36-3	1622409	5.35			
Chlorobenzene-d5	3114-55-4	1637652	8.59			
1,4-Dichlorobenzene-d4	3855-82-1	834628	10.74			

Surrogate Summary
SW-846

SDG No.: S3529
Client: Chazen Companies
Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
BLKMS	VBLK01MS	1,2-Dichloroethane-d4	50	51.42	103		72.00	119.00
		Dibromofluoromethane	50	51.24	102		85.00	115.00
		Toluene-d8	50	51.67	103		81.00	120.00
		4-Bromofluorobenzene	50	52.73	105		76.00	119.00
BLKMSD	VBLK01MSD	1,2-Dichloroethane-d4	50	49.67	99		72.00	119.00
		Dibromofluoromethane	50	48.79	98		85.00	115.00
		Toluene-d8	50	49.22	98		81.00	120.00
		4-Bromofluorobenzene	50	49.93	100		76.00	119.00
BSG0716W1	VLCS01	1,2-Dichloroethane-d4	50	57.01	114		72.00	119.00
		Dibromofluoromethane	50	51.37	103		85.00	115.00
		Toluene-d8	50	51.59	103		81.00	120.00
		4-Bromofluorobenzene	50	53.29	107		76.00	119.00
S3529-01	MW-1	1,2-Dichloroethane-d4	50	51.34	103		72.00	119.00
		Dibromofluoromethane	50	53.63	107		85.00	115.00
		Toluene-d8	50	52.84	106		81.00	120.00
		4-Bromofluorobenzene	50	53.59	107		76.00	119.00
S3529-02	MW-6	1,2-Dichloroethane-d4	50	52.58	105		72.00	119.00
		Dibromofluoromethane	50	51.71	103		85.00	115.00
		Toluene-d8	50	49.78	100		81.00	120.00
		4-Bromofluorobenzene	50	52.61	105		76.00	119.00
S3529-03	MW-2	1,2-Dichloroethane-d4	50	55	110		72.00	119.00
		Dibromofluoromethane	50	52.7	105		85.00	115.00
		Toluene-d8	50	53.4	107		81.00	120.00
		4-Bromofluorobenzene	50	54.78	110		76.00	119.00
S3529-04	MW-3	1,2-Dichloroethane-d4	50	53.04	106		72.00	119.00
		Dibromofluoromethane	50	53.35	107		85.00	115.00
		Toluene-d8	50	51.13	102		81.00	120.00
		4-Bromofluorobenzene	50	53.14	106		76.00	119.00
S3529-05	MW-4	1,2-Dichloroethane-d4	50	57.35	115		72.00	119.00
		Dibromofluoromethane	50	53.37	107		85.00	115.00
		Toluene-d8	50	53.64	107		81.00	120.00
		4-Bromofluorobenzene	50	54.56	109		76.00	119.00
S3529-06	MW-5	1,2-Dichloroethane-d4	50	56.72	113		72.00	119.00
		Dibromofluoromethane	50	51.32	103		85.00	115.00
		Toluene-d8	50	49.7	99		81.00	120.00
		4-Bromofluorobenzene	50	52.18	104		76.00	119.00
S3529-07	TRIPBLANK	1,2-Dichloroethane-d4	50	54.55	109		72.00	119.00
		Dibromofluoromethane	50	51.6	103		85.00	115.00
		Toluene-d8	50	49.24	98		81.00	120.00
		4-Bromofluorobenzene	50	50.13	100		76.00	119.00
S3529-08	MW-3DUP	1,2-Dichloroethane-d4	50	55.54	111		72.00	119.00
		Dibromofluoromethane	50	49.12	98		85.00	115.00

Surrogate Summary
SW-846

SDG No.: S3529
Client: Chazen Companies
Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
S3529-08	MW-3DUP	Toluene-d8	50	49.74	99		81.00	120.00
		4-Bromofluorobenzene	50	52.45	105		76.00	119.00
VBG0716W2	VBLK01	1,2-Dichloroethane-d4	50	52.61	105		72.00	119.00
		Dibromofluoromethane	50	52.02	104		85.00	115.00
		Toluene-d8	50	51.94	104		81.00	120.00
		4-Bromofluorobenzene	50	52.01	104		76.00	119.00

Chemtech

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: S3529

Client: Chazen Companies

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**VBLK01MS**									
BLKMS	1,1-Dichloroethene	50	0.0	56	112			70	140	
	Benzene	50	0.0	53	106			79	130	
	Trichloroethene	50	0.0	60	120			69	153	
	Toluene	50	0.0	53	106			81	133	
	Chlorobenzene	50	0.0	49	98			79	122	
Client Sample ID:	**VBLK01MSD**									
BLKMSD	1,1-Dichloroethene	50	0.0	60	120	7		70	140	14
	Benzene	50	0.0	51	102	4		79	130	11
	Trichloroethene	50	0.0	59	118	2		69	153	14
	Toluene	50	0.0	52	104	2		81	133	13
	Chlorobenzene	50	0.0	51	102	4		79	122	13

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: S3529

Client: Chazen Companies

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
BSG0716W1	1,1-Dichloroethene	20	20	100			70	130	
	Benzene	20	18	90			70	130	
	Trichloroethene	20	19	95			70	130	
	Toluene	20	18	90			70	130	
	Chlorobenzene	20	16	80			70	130	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: VBLK01

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3529 SAS No.: S3529 SDG NO.: S3529

Lab File ID: VG071605.D Lab Sample ID: VBG0716W2

Date Analyzed: 7/16/2004 Time Analyzed: 01:46

GC Column: RTX624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOAG

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
TRIPBLANK	S3529-07	VG071607.D	02:31
VLCS01	BSG0716W1	VG071612.D	04:25
VBLK01MS	BLKMS	VG071613.D	04:49
VBLK01MSD	BLKMSD	VG071614.D	05:12
MW-1	S3529-01	VG071616.D	05:58
MW-6	S3529-02	VG071617.D	06:21
MW-2	S3529-03	VG071618.D	06:44
MW-3	S3529-04	VG071619.D	07:08
MW-4	S3529-05	VG071620.D	07:31
MW-5	S3529-06	VG071621.D	07:53
MW-3DUP	S3529-08	VG071622.D	08:16

COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3529 SAS No.: S3529 SDG NO.: S3529

Lab File ID: VG071401.D BFB Injection Date: 7/14/2004

Instrument ID: MSVOAG BFB Injection Time: 10:30

GC Column: RTX624 ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.2
75	30.0 - 60.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.2 (0.2 1
174	50.0 - 100.0% of mass 95	73.7
175	5.0 - 9.0% of mass 174	5.4 (7.4 1
176	95.0 - 101.0% of mass 174	72.6 (98.5 1
177	5.0 - 9.0% of mass 176	4.9 (6.8 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD001	1 PPB ICC	VG071402.D	7/14/2004	10:55
VSTD010	10 PPB ICC	VG071403.D	7/14/2004	11:18
VSTD050	50 PPB ICC	VG071404.D	7/14/2004	11:42
VSTD100	100 PPB ICC	VG071405.D	7/14/2004	12:05
VSTD200	200 PPB ICC	VG071406.D	7/14/2004	12:28

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No.: S3529 SAS No.: S3529 SDG NO.: S3529

Lab File ID: VG071601.D BFB Injection Date: 7/16/2004

Instrument ID: MSVOAG BFB Injection Time: 00:15

GC Column: RTX624 ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.8
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.1(0.0 1
174	50.0 - 100.0% of mass 95	59.9
175	5.0 - 9.0% of mass 174	5.1 (8.4 1
176	95.0 - 101.0% of mass 174	57.5 (96.0 1
177	5.0 - 9.0% of mass 176	4.0 (7.0 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD050	50 PPB CCC	VG071602.D	7/16/2004	00:38
VBLK01	VBG0716W2	VG071605.D	7/16/2004	01:46
TRIPBLANK	S3529-07	VG071607.D	7/16/2004	02:31
VLCS01	BSG0716W1	VG071612.D	7/16/2004	04:25
VBLK01MS	BLKMS	VG071613.D	7/16/2004	04:49
VBLK01MSD	BLKMSD	VG071614.D	7/16/2004	05:12
MW-1	S3529-01	VG071616.D	7/16/2004	05:58
MW-6	S3529-02	VG071617.D	7/16/2004	06:21
MW-2	S3529-03	VG071618.D	7/16/2004	06:44
MW-3	S3529-04	VG071619.D	7/16/2004	07:08
MW-4	S3529-05	VG071620.D	7/16/2004	07:31
MW-5	S3529-06	VG071621.D	7/16/2004	07:53
MW-3DUP	S3529-08	VG071622.D	7/16/2004	08:16

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract CHAZ02

Lab Code: CTECH Case No.: S3529 SAS No.: S3529 SDG No.: S3529

Lab File ID: VG071602.D Date Analyzed: 7/16/2004

Instrument ID: MSVOAG Time Analyzed: 00:38

GC Column: RTX624 ID: 0.1 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	890332	4.61	1612659	5.34	1590682	8.59
UPPER LIMIT	1780664	5.11	3225318	5.84	3181364	9.09
LOWER LIMIT	445166	4.11	806330	4.84	795341	8.09
SAMPLE NO.						
VBLK01	943188	4.61	1689299	5.35	1696241	8.60
TRIPBLANK	901660	4.61	1660210	5.35	1704055	8.60
VLCS01	854709	4.61	1535848	5.34	1586534	8.60
VBLK01MS	853996	4.60	1518804	5.34	1574220	8.60
VBLK01MSD	904831	4.60	1674501	5.35	1642471	8.59
MW-1	981378	4.61	1696653	5.35	1765581	8.60
MW-6	951893	4.61	1672103	5.35	1739901	8.60
MW-2	896184	4.61	1597223	5.34	1711623	8.59
MW-3	909216	4.61	1623326	5.35	1710673	8.60
MW-4	863466	4.61	1560124	5.34	1677283	8.60
MW-5	856931	4.61	1617324	5.35	1650586	8.59
MW-3DUP	850861	4.60	1622409	5.35	1637652	8.59

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract: CHAZ02

Lab Code: CTECH Case No. S3529 SAS No.: S3529 SDG No.: S3529

Lab File ID: VG071602.D Date Analyzed: 7/16/2004

Instrument ID: MSVOAG Time Analyzed: 00:38

GC Column: RTX624 ID: 0.1 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT#				
12 HOUR STD	837331	10.74				
UPPER LIMIT	1674662	11.24				
LOWER LIMIT	418666	10.24				
SAMPLE NO.		✓				
VBLK01	871167	10.74				
TRIPBLANK	841844	10.74				
VLCS01	830037	10.74				
VBLK01MS	849788	10.74				
VBLK01MSD	868992	10.73				
MW-1	921981	10.74				
MW-6	902964	10.74				
MW-2	861685	10.74				
MW-3	857189	10.73				
MW-4	850597	10.74				
MW-5	836688	10.74				
MW-3DUP	834628	10.74				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

DATA USABILITY SUMMARY REPORT

for

THE CHAZEN COMPANIES

20 Gurley Avenue

Troy, NY 12182

FORMER STILLWATER BOILER HOUSE
ID#B-001975-5
SDG:S3529
Sampled 7/8/04

AQUEOUS SAMPLES for SEMIVOLATILE ORGANICS

MW-1	(S3529-01)
MW-6	(S3529-02)
MW-2	(S3529-03)
MW-3	(S3529-04)
MW-4	(S3529-05)
MW-5	(S3529-06)
MW-3DUP	(S3529-08)

DATA ASSESSMENT

A semivolatile organics data package containing analytical results for seven aqueous samples was received from The Chazen Companies on 21Sep04. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Stillwater Boiler House site (ID#B-00197-5), were identified by Chain of Custody documents and traceable through the work of CHEMTECH, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8270C, addressed Target Compound List analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 06/2000. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-22, Rev 2, SOP for the Validation of Organic Data Acquired Using SW-846 Method 8270C, June 2001) was used as a technical reference.

The presence of bis(2-ethylhexyl)phthalate and an Aldol Condensation Product (ACP) in every program sample is assumed to represent a laboratory artifact. The phthalate and the ACP should be considered undetected in each samples.

The acid fraction of each program sample has been qualified as an estimation due to poor surrogate standard recoveries.

The Tentatively Identified Compounds (TIC) reported from each program sample have been corrected to reflect identifications that are supported by the library searches included in the raw data.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Reported concentrations that are felt to provide a usable estimation of the conditions being measured have been flagged "J" and "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 10/18/04

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved, or are not analyzed within established holding times, may no longer be considered representative. Holding times are calculated from the time of receipt (VTSR). Samples must remain chilled to 4°C from the time of collection. Extractions must begin within 5 days of receipt. Analyses must be completed within 40 days of extraction. Each sample delivery group, containing up to 20 samples, should include a field duplicate, a matrix spike, matrix spike duplicate, and a rinsate blank.

This sample delivery group contained six groundwater samples and a field duplicate. The samples were collected from the Former Stillwater Boiler House site 08Jul04. They were shipped to the laboratory, via FedEx on the day of collection. They were received, intact, on 10Jul04. The entire group of samples was extracted on 14Jul04. Analyses were completed on 20Jul04. Program holding time limitations were satisfied.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank. Any sample concentration less than 5 times the level determined in a blank must be qualified. The qualification criteria is extended to ten times the concentration observed in blanks for common laboratory artifacts. These include phthalate esters.

One method blank was processed with this group of samples. This blank demonstrated acceptable chromatography and was free of targeted analyte contamination. Although not present in the method blank, bis(2-ehtylhexyl)phthalate was detected in each program sample. The presence of this phthalate is assumed to represent a laboratory artifact. However, because the phthalate was not present in blanks, it cannot be removed from sample reports. Bis(3-ethylhexyl)phthalate concentrations have been flagged as estimations. They should only be considered significant if consistent with site history.

4-Hydroxy-4-methyl-2-pentanone, an Aldol Condensation Product, was reported as a Tentatively Identified Compound (TIC), in the method blank and each program sample. This artifact has been removed from sample reports.

MS TUNING

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of DFTPP was analyzed prior to each analytical sequence and during every 12-hour period of instrument operation. An Instrument Performance Check Form is

present for each DFTPP evaluation. The DFTPP tunes associated with this group of samples satisfied the program acceptance criteria.

CALIBRATION

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration standards verify instrument stability.

The initial instrument calibration was performed on 10Jul04. Standards of 20, 50, 80, 120 and 160 ng were included. The calibration curve for each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity.

Calibration verifications were performed on 15Jul04 and 19Jul04, prior to the analysis of samples from this program. When compared to the initial calibration, these checks demonstrated an acceptable level of instrument stability.

SURROGATES

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared. The laboratory's in-house acceptance criteria was applied. However, when compared to the ASP criteria, the phenol-d5 and 2-fluorophenol additions to every program sample except MW-3DUP produced an unacceptably low recovery. Based on this performance, the aid fraction of every sample except MW-3DUP has been qualified as an estimation.

INTERNAL STANDARDS

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria an acceptable response was reported for each internal standard addition to this group of samples.

MATRIX SPIKES / MATRIX SPIKE DUPLICATES / MATRIX SPIKED BLANKS

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

A spiked sample was not analyzed with this group of samples. Recoveries for a pair of spiked blanks were reported. Although these spikes produced acceptable recoveries, they provided no indication of sample matrix affects that might bias measurements. The laboratory should be cautioned against such omissions in the future.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Field split duplicates of MW-3 were included in this delivery group. Both samples contained a trace of the phthalate artifact and were otherwise clean. An acceptable level of precision was demonstrated.

SAMPLE INFORMATION

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples.

The Tentatively Identified Compounds (TIC) reported from each sample included an Aldol Condensation Product (ACP). This artifact has been removed from each report. The TIC's reported from each sample also included several identifications that were not supported by the library searches included in the raw data. Each report has been edited to include appropriate identifications.

SUMMARY OF QUALIFIED DATA

Former Stillwater Boiler House site

Sampled 08Jul04

		BLANK ALDOL	BLANK PHTHALATE	SURROGATE ACIDS	SPECTRA ID TIC
MW-1	(S3529-01)	REMOVE	0.34U	ALL UJ	CORRECT
MW-6	(S3529-02)	REMOVE	0.34U	ALL UJ	CORRECT
MW-2	(S3529-03)	REMOVE	0.35U	ALL UJ	CORRECT
MW-3	(S3529-04)	REMOVE	0.34U	ALL UJ	CORRECT
MW-4	(S3529-05)	REMOVE	0.34U	ALL UJ	CORRECT
MW-5	(S3529-06)	REMOVE	0.34U	ALL UJ	CORRECT
MW-3DUP	(S3529-08)	REMOVE	0.34U		CORRECT

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-01 Client ID: MW-1

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/15/2004 Matrix: WATER
Date Extracted: 7/14/2004 File ID: BB017031.D
Dilution: 1 Instrument ID: BNAB
Analytical Method: 8270 Analytical Run ID: BB071004
Sample Wt/Vol: 950.0 Extract Vol: 1000
Injection Vol: 2 % Moisture: 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 1.7	U	11	1.7	ug/L
Phenol	108-95-2	< 0.430	~~U~~ UJ	11	0.430	ug/L
bis(2-Chloroethyl)ether	111-44-4	< 0.330	U	11	0.330	ug/L
2-Chlorophenol	95-57-8	< 0.730	~~U~~ UJ	11	0.730	ug/L
2-Methylphenol	95-48-7	< 1.1	~~U~~ UJ	11	1.1	ug/L
2,2-oxybis(1-Chloropropane)	108-60-1	< 0.840	U	11	0.840	ug/L
Acetophenone	98-86-2	< 0.560	U	11	0.560	ug/L
3+4-Methylphenols	106-44-5	< 1.1	~~U~~ UJ	11	1.1	ug/L
N-Nitroso-di-n-propylamine	621-64-7	< 0.770	U	11	0.770	ug/L
Hexachloroethane	67-72-1	< 0.920	U	11	0.920	ug/L
Nitrobenzene	98-95-3	< 0.380	U	11	0.380	ug/L
Isophorone	78-59-1	< 0.480	U	11	0.480	ug/L
2-Nitrophenol	88-75-5	< 0.270	~~U~~ UJ	11	0.270	ug/L
2,4-Dimethylphenol	105-67-9	< 0.470	~~U~~ UJ	11	0.470	ug/L
bis(2-Chloroethoxy)methane	111-91-1	< 0.450	U	11	0.450	ug/L
2,4-Dichlorophenol	120-83-2	< 0.290	~~U~~ UJ	11	0.290	ug/L
Naphthalene	91-20-3	< 0.270	U	11	0.270	ug/L
4-Chloroaniline	106-47-8	< 4.1	U	11	4.1	ug/L
Hexachlorobutadiene	87-68-3	< 0.380	U	11	0.380	ug/L
Caprolactam	105-60-2	< 0.510	U	11	0.510	ug/L
4-Chloro-3-methylphenol	59-50-7	< 0.300	~~U~~ UJ	11	0.300	ug/L
2-Methylnaphthalene	91-57-6	< 0.500	U	11	0.500	ug/L
Hexachlorocyclopentadiene	77-47-4	< 0.460	U	11	0.460	ug/L
2,4,6-Trichlorophenol	88-06-2	< 0.290	~~U~~ UJ	11	0.290	ug/L
2,4,5-Trichlorophenol	95-95-4	< 0.590	~~U~~ UJ	11	0.590	ug/L
1,1-Biphenyl	92-52-4	< 0.270	U	11	0.270	ug/L
2-Chloronaphthalene	91-58-7	< 0.390	U	11	0.390	ug/L
2-Nitroaniline	88-74-4	< 0.300	U	11	0.300	ug/L
Dimethylphthalate	131-11-3	< 0.260	U	11	0.260	ug/L
Acenaphthylene	208-96-8	< 0.440	U	11	0.440	ug/L

SVOC

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-01 Client ID: MW-1

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/15/2004 Matrix: WATER
Date Extracted: 7/14/2004 File ID: BB017031.D
Dilution: 1 Instrument ID: BNAB
Analytical Method: 8270 Analytical Run ID: BB071004
Sample Wt/Vol: 950.0 Extract Vol: 1000
Injection Vol: 2 % Moisture: 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 0.420	U	11	0.420	ug/L
3-Nitroaniline	99-09-2	< 1.1	U	11	1.1	ug/L
Acenaphthene	83-32-9	< 0.240	U	11	0.240	ug/L
2,4-Dinitrophenol	51-28-5	< 0.190	~~U~~ UJ	11	0.190	ug/L
4-Nitrophenol	100-02-7	< 0.950	~~U~~ UJ	11	0.950	ug/L
Dibenzofuran	132-64-9	< 0.320	U	11	0.320	ug/L
2,4-Dinitrotoluene	121-14-2	< 0.340	U	11	0.340	ug/L
Diethylphthalate	84-66-2	< 0.340	U	11	0.340	ug/L
4-Chlorophenyl-phenylether	7005-72-3	< 0.370	U	11	0.370	ug/L
Fluorene	86-73-7	< 0.170	U	11	0.170	ug/L
4-Nitroaniline	100-01-6	< 0.840	U	11	0.840	ug/L
4,6-Dinitro-2-methylphenol	534-52-1	< 1.5	~~U~~ UJ	11	1.5	ug/L
N-Nitrosodiphenylamine	86-30-6	< 0.280	U	11	0.280	ug/L
4-Bromophenyl-phenylether	101-55-3	< 0.170	U	11	0.170	ug/L
Hexachlorobenzene	118-74-1	< 0.230	U	11	0.230	ug/L
Atrazine	1912-24-9	< 0.480	U	11	0.480	ug/L
Pentachlorophenol	87-86-5	< 0.390	~~U~~ UJ	11	0.390	ug/L
Phenanthrene	85-01-8	< 0.280	U	11	0.280	ug/L
Anthracene	120-12-7	< 0.160	U	11	0.160	ug/L
Carbazole	86-74-8	< 0.310	U	11	0.310	ug/L
Di-n-butylphthalate	84-74-2	< 0.099	U	11	0.099	ug/L
Fluoranthene	206-44-0	< 0.210	U	11	0.210	ug/L
Pyrene	129-00-0	< 0.250	U	11	0.250	ug/L
Butylbenzylphthalate	85-68-7	< 0.300	U	11	0.300	ug/L
3,3-Dichlorobenzidine	91-94-1	< 1.6	U	11	1.6	ug/L
Benzo(a)anthracene	56-55-3	< 0.230	U	11	0.230	ug/L
Chrysene	218-01-9	< 0.390	U	11	0.390	ug/L
bis(2-Ethylhexyl)phthalate	117-81-7	< ~~2.2~~ 0.34	~~U~~ U ✓	11	0.350	ug/L
Di-n-octyl phthalate	117-84-0	< 0.170	U	11	0.170	ug/L
Benzo(b)fluoranthene	205-99-2	< 0.230	U	11	0.230	ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-01 Client ID: MW-1

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/15/2004 Matrix: WATER
Date Extracted: 7/14/2004 File ID: BB017031.D
Dilution: 1 Instrument ID: BNAB
Analytical Method: 8270 Analytical Run ID: BB071004
Sample Wt/Vol: 950.0 Extract Vol: 1000
Injection Vol: 2 % Moisture: 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 0.390	U	11	0.390	ug/L
Benzo(a)pyrene	50-32-8	< 0.450	U	11	0.450	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.290	U	11	0.290	ug/L
Dibenz(a,h)anthracene	53-70-3	< 0.290	U	11	0.290	ug/L
Benzo(g,h,i)perylene	191-24-2	< 0.430	U	11	0.430	ug/L
SURROGATES						
2-Fluorophenol	367-12-4	68.3	23 %	21 - 100		SPK: 300
Phenol-d5	13127-88-3	44.77	15 %	10 - 94		SPK: 300
Nitrobenzene-d5	4165-60-0	131.94	66 %	35 - 114		SPK: 200
2-Fluorobiphenyl	321-60-8	142.51	71 %	43 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	148.73	50 %	10 - 123		SPK: 300
Terphenyl-d14	1718-51-0	90.87	45 %	33 - 141		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	429684	6.52			
Naphthalene-d8	1146-65-2	1623489	8.83			
Acenaphthene-d10	15067-26-2	819501	12.31			
Phenanthrene-d10	1517-22-2	1240586	15.30			
Chrysene-d12	1719-03-5	940291	20.68			
Perylene-d12	1520-96-3	802853	24.05			
TENTITIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~6.2~~	~~AB~~	~~4.15~~		~~ug/L~~ R
~~Tetradecanoic acid~~ organic acid	544638	3.2	J	16.46		ug/L
~~Oleic Acid~~ unknown	112801	10	J	17.90		ug/L
~~1-Octadecanol~~ alcohol	112925	6.7	J	20.38		ug/L

MB

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-02 **Client ID:** MW-6

Date Collected: 7/8/2004 **Date Received:** 7/10/2004
Date Analyzed: 7/15/2004 **Matrix:** WATER
Date Extracted: 7/14/2004 **File ID:** BB017033.D
Dilution: 1 **Instrument ID:** BNAB
Analytical Method: 8270 **Analytical Run ID:** BB071004
Sample Wt/Vol: 960.0 **Extract Vol:** 1000
Injection Vol: 2 **% Moisture:** 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 1.7	U	10	1.7	ug/L
Phenol	108-95-2	< 0.430	~~U~~ UJ	10	0.430	ug/L
bis(2-Chloroethyl)ether	111-44-4	< 0.330	U	10	0.330	ug/L
2-Chlorophenol	95-57-8	< 0.730	~~U~~ UJ	10	0.730	ug/L
2-Methylphenol	95-48-7	< 1.1	~~U~~ UJ	10	1.1	ug/L
2,2-oxybis(1-Chloropropane)	108-60-1	< 0.830	U	10	0.830	ug/L
Acetophenone	98-86-2	< 0.550	U	10	0.550	ug/L
3+4-Methylphenols	106-44-5	< 1.1	~~U~~ UJ	10	1.1	ug/L
N-Nitroso-di-n-propylamine	621-64-7	< 0.770	U	10	0.770	ug/L
Hexachloroethane	67-72-1	< 0.910	U	10	0.910	ug/L
Nitrobenzene	98-95-3	< 0.380	U	10	0.380	ug/L
Isophorone	78-59-1	< 0.480	U	10	0.480	ug/L
2-Nitrophenol	88-75-5	< 0.270	~~U~~ UJ	10	0.270	ug/L
2,4-Dimethylphenol	105-67-9	< 0.460	~~U~~ UJ	10	0.460	ug/L
bis(2-Chloroethoxy)methane	111-91-1	< 0.440	U	10	0.440	ug/L
2,4-Dichlorophenol	120-83-2	< 0.290	~~U~~ UJ	10	0.290	ug/L
Naphthalene	91-20-3	< 0.270	U	10	0.270	ug/L
4-Chloroaniline	106-47-8	< 4.1	U	10	4.1	ug/L
Hexachlorobutadiene	87-68-3	< 0.380	U	10	0.380	ug/L
Caprolactam	105-60-2	< 0.510	U	10	0.510	ug/L
4-Chloro-3-methylphenol	59-50-7	< 0.300	~~U~~ UJ	10	0.300	ug/L
2-Methylnaphthalene	91-57-6	< 0.500	U	10	0.500	ug/L
Hexachlorocyclopentadiene	77-47-4	< 0.450	U	10	0.450	ug/L
2,4,6-Trichlorophenol	88-06-2	< 0.280	~~U~~ UJ	10	0.280	ug/L
2,4,5-Trichlorophenol	95-95-4	< 0.580	~~U~~ UJ	10	0.580	ug/L
1,1-Biphenyl	92-52-4	< 0.270	U	10	0.270	ug/L
2-Chloronaphthalene	91-58-7	< 0.390	U	10	0.390	ug/L
2-Nitroaniline	88-74-4	< 0.300	U	10	0.300	ug/L
Dimethylphthalate	131-11-3	< 0.260	U	10	0.260	ug/L
Acenaphthylene	208-96-8	< 0.430	U	10	0.430	ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-02 **Client ID:** MW-6

Date Collected: 7/8/2004 **Date Received:** 7/10/2004
Date Analyzed: 7/15/2004 **Matrix:** WATER
Date Extracted: 7/14/2004 **File ID:** BB017033.D
Dilution: 1 **Instrument ID:** BNAB
Analytical Method: 8270 **Analytical Run ID:** BB071004
Sample Wt/Vol: 960.0 **Extract Vol:** 1000
Injection Vol: 2 **% Moisture:** 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 0.410	U	10	0.410	ug/L
3-Nitroaniline	99-09-2	< 1.0	U	10	1.0	ug/L
Acenaphthene	83-32-9	< 0.240	U	10	0.240	ug/L
2,4-Dinitrophenol	51-28-5	< 0.190	~~U~~ UJ	10	0.190	ug/L
4-Nitrophenol	100-02-7	< 0.940	~~U~~ UJ	10	0.940	ug/L
Dibenzofuran	132-64-9	< 0.310	U	10	0.310	ug/L
2,4-Dinitrotoluene	121-14-2	< 0.340	U	10	0.340	ug/L
Diethylphthalate	84-66-2	< 0.340	U	10	0.340	ug/L
4-Chlorophenyl-phenylether	7005-72-3	< 0.360	U	10	0.360	ug/L
Fluorene	86-73-7	< 0.170	U	10	0.170	ug/L
4-Nitroaniline	100-01-6	< 0.830	U	10	0.830	ug/L
4,6-Dinitro-2-methylphenol	534-52-1	< 1.4	~~U~~ UJ	10	1.4	ug/L
N-Nitrosodiphenylamine	86-30-6	< 0.280	U	10	0.280	ug/L
4-Bromophenyl-phenylether	101-55-3	< 0.170	U	10	0.170	ug/L
Hexachlorobenzene	118-74-1	< 0.230	U	10	0.230	ug/L
Atrazine	1912-24-9	< 0.480	U	10	0.480	ug/L
Pentachlorophenol	87-86-5	< 0.390	~~U~~ UJ	10	0.390	ug/L
Phenanthrene	85-01-8	< 0.270	U	10	0.270	ug/L
Anthracene	120-12-7	< 0.160	U	10	0.160	ug/L
Carbazole	86-74-8	< 0.310	U	10	0.310	ug/L
Di-n-butylphthalate	84-74-2	< 0.098	U	10	0.098	ug/L
Fluoranthene	206-44-0	< 0.210	U	10	0.210	ug/L
Pyrene	129-00-0	< 0.250	U	10	0.250	ug/L
Butylbenzylphthalate	85-68-7	< 0.300	U	10	0.300	ug/L
3,3-Dichlorobenzidine	91-94-1	< 1.6	U	10	1.6	ug/L
Benzo(a)anthracene	56-55-3	< 0.220	U	10	0.220	ug/L
Chrysene	218-01-9	< 0.380	U	10	0.380	ug/L
bis(2-Ethylhexyl)phthalate	117-81-7	~~< 1.6~~ 0.34 ✓	~~U~~ J	10	0.340	ug/L
Di-n-octyl phthalate	117-84-0	< 0.170	U	10	0.170	ug/L
Benzo(b)fluoranthene	205-99-2	< 0.230	U	10	0.230	ug/L

SVOC

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-02 Client ID: MW-6

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/15/2004 Matrix: WATER
Date Extracted: 7/14/2004 File ID: BB017033.D
Dilution: 1 Instrument ID: BNAB
Analytical Method: 8270 Analytical Run ID: BB071004
Sample Wt/Vol: 960.0 Extract Vol: 1000
Injection Vol: 2 % Moisture: 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 0.380	U	10	0.380	ug/L
Benzo(a)pyrene	50-32-8	< 0.450	U	10	0.450	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.290	U	10	0.290	ug/L
Dibenz(a,h)anthracene	53-70-3	< 0.290	U	10	0.290	ug/L
Benzo(g,h,i)perylene	191-24-2	< 0.420	U	10	0.420	ug/L
SURROGATES						
2-Fluorophenol	367-12-4	72.96	24 %	21 - 100		SPK: 300
Phenol-d5	13127-88-3	48.83	16 %	10 - 94		SPK: 300
Nitrobenzene-d5	4165-60-0	127.57	64 %	35 - 114		SPK: 200
2-Fluorobiphenyl	321-60-8	131.9	66 %	43 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	146.74	49 %	10 - 123		SPK: 300
Terphenyl-d14	1718-51-0	89	44 %	33 - 141		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	426781	6.52			
Naphthalene-d8	1146-65-2	1670398	8.83			
Acenaphthene-d10	15067-26-2	830525	12.31			
Phenanthrene-d10	1517-22-2	1234791	15.30			
Chrysene-d12	1719-03-5	907514	20.68			
Perylene-d12	1520-96-3	786777	24.04			
TENTATIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~6.4~~	~~AB~~	~~4.15~~		~~ug/L~~ R
~~1-Hexanol, 2-ethyl-~~ unknown	104767	8.2	J	6.64		ug/L
~~1,2-Benzenedicarbonitrile, 4-amino-~~ unknown	56765798	3.8	J	8.13		ug/L
~~4-Fluoro-4-nitrophenol~~	1526176	3.2	J	8.36		ug/L
~~Ethanol, 2-[(2-ethylhexyl)oxy]-~~ unknown	1559359	3.6	J	9.30		ug/L
~~Bicyclo[2.2.1]hept-2-one, 5-ethenyl-~~ unknown	3048644	2.0	J	10.54		ug/L
~~Diisopropyl ether~~ unknown	108203	5.3	J	14.99		ug/L
Hexadecanoic acid	57103	3.6	J	16.46		ug/L
~~Ethanol, 2-[2-(2-methoxyethoxy)et~~ unknown	112356	5.9	J	17.28		ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-02 Client ID: MW-6

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/15/2004 Matrix: WATER
Date Extracted: 7/14/2004 File ID: BB017033.D
Dilution: 1 Instrument ID: BNAB
Analytical Method: 8270 Analytical Run ID: BB071004
Sample Wt/Vol: 960.0 Extract Vol: 1000
Injection Vol: 2 % Moisture: 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TENTITIVE IDENTIFIED COMPOUNDS						
~~Oleic Acid~~ Organic acid	112801	15	J	17.90		ug/L
~~Octadecanoic acid~~ unknown	57114	2.6	J	18.05		ug/L
~~3,6,9,12,15-Pentaoxanonadecan-1-~~	1786943	3.8	J	19.33		ug/L
~~1-Nonadecanol~~ unknown	1454848	4.5	J	20.38		ug/L
~~Thiazolidine~~ unknown	504789	3.4	J	21.14		ug/L
~~Bis(2-chloroisopropyl) ether~~	39638329	2.1	J	22.71		ug/L
~~Dodecanol~~ unknown	10203288	2.3	J	25.48		ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-03 **Client ID:** MW-2

Date Collected: 7/8/2004 **Date Received:** 7/10/2004
Date Analyzed: 7/19/2004 **Matrix:** WATER
Date Extracted: 7/14/2004 **File ID:** BB017087.D
Dilution: 1 **Instrument ID:** BNAB
Analytical Method: 8270 **Analytical Run ID:** BB071004
Sample Wt/Vol: 940.0 **Extract Vol:** 1000
Injection Vol: 2 **% Moisture:** 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 1.8	U	11	1.8	ug/L
Phenol	108-95-2	< 0.440	~~U~~ UJ	11	0.440	ug/L
bis(2-Chloroethyl)ether	111-44-4	< 0.330	U	11	0.330	ug/L
2-Chlorophenol	95-57-8	< 0.740	~~U~~ UJ	11	0.740	ug/L
2-Methylphenol	95-48-7	< 1.2	~~U~~ UJ	11	1.2	ug/L
2,2-oxybis(1-Chloropropane)	108-60-1	< 0.850	U	11	0.850	ug/L
Acetophenone	98-86-2	< 0.560	U	11	0.560	ug/L
3+4-Methylphenols	106-44-5	< 1.1	~~U~~ UJ	11	1.1	ug/L
N-Nitroso-di-n-propylamine	621-64-7	< 0.780	U	11	0.780	ug/L
Hexachloroethane	67-72-1	< 0.930	U	11	0.930	ug/L
Nitrobenzene	98-95-3	< 0.380	U	11	0.380	ug/L
Isophorone	78-59-1	< 0.490	U	11	0.490	ug/L
2-Nitrophenol	88-75-5	< 0.270	~~U~~ UJ	11	0.270	ug/L
2,4-Dimethylphenol	105-67-9	< 0.470	~~U~~ UJ	11	0.470	ug/L
bis(2-Chloroethoxy)methane	111-91-1	< 0.450	U	11	0.450	ug/L
2,4-Dichlorophenol	120-83-2	< 0.290	~~U~~ UJ	11	0.290	ug/L
Naphthalene	91-20-3	< 0.270	U	11	0.270	ug/L
4-Chloroaniline	106-47-8	< 4.2	U	11	4.2	ug/L
Hexachlorobutadiene	87-68-3	< 0.380	U	11	0.380	ug/L
Caprolactam	105-60-2	< 0.520	U	11	0.520	ug/L
4-Chloro-3-methylphenol	59-50-7	< 0.310	~~U~~ UJ	11	0.310	ug/L
2-Methylnaphthalene	91-57-6	< 0.510	U	11	0.510	ug/L
Hexachlorocyclopentadiene	77-47-4	< 0.460	U	11	0.460	ug/L
2,4,6-Trichlorophenol	88-06-2	< 0.290	~~U~~ UJ	11	0.290	ug/L
2,4,5-Trichlorophenol	95-95-4	< 0.590	~~U~~ UJ	11	0.590	ug/L
1,1-Biphenyl	92-52-4	< 0.270	U	11	0.270	ug/L
2-Chloronaphthalene	91-58-7	< 0.390	U	11	0.390	ug/L
2-Nitroaniline	88-74-4	< 0.300	U	11	0.300	ug/L
Dimethylphthalate	131-11-3	< 0.260	U	11	0.260	ug/L
Acenaphthylene	208-96-8	< 0.440	U	11	0.440	ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-03 **Client ID:** MW-2

Date Collected: 7/8/2004 **Date Received:** 7/10/2004
Date Analyzed: 7/19/2004 **Matrix:** WATER
Date Extracted: 7/14/2004 **File ID:** BB017087.D
Dilution: 1 **Instrument ID:** BNAB
Analytical Method: 8270 **Analytical Run ID:** BB071004
Sample Wt/Vol: 940.0 **Extract Vol:** 1000
Injection Vol: 2 **% Moisture:** 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 0.420	U	11	0.420	ug/L
3-Nitroaniline	99-09-2	< 1.1	U	11	1.1	ug/L
Acenaphthene	83-32-9	< 0.240	U	11	0.240	ug/L
2,4-Dinitrophenol	51-28-5	< 0.190	~~U~~ UJ	11	0.190	ug/L
4-Nitrophenol	100-02-7	< 0.960	~~U~~ UJ	11	0.960	ug/L
Dibenzofuran	132-64-9	< 0.320	U	11	0.320	ug/L
2,4-Dinitrotoluene	121-14-2	< 0.340	U	11	0.340	ug/L
Diethylphthalate	84-66-2	< 0.350	U	11	0.350	ug/L
4-Chlorophenyl-phenylether	7005-72-3	< 0.370	U	11	0.370	ug/L
Fluorene	86-73-7	< 0.180	U	11	0.180	ug/L
4-Nitroaniline	100-01-6	< 0.850	U	11	0.850	ug/L
4,6-Dinitro-2-methylphenol	534-52-1	< 1.5	~~U~~ UJ	11	1.5	ug/L
N-Nitrosodiphenylamine	86-30-6	< 0.290	U	11	0.290	ug/L
4-Bromophenyl-phenylether	101-55-3	< 0.170	U	11	0.170	ug/L
Hexachlorobenzene	118-74-1	< 0.240	U	11	0.240	ug/L
Atrazine	1912-24-9	< 0.490	U	11	0.490	ug/L
Pentachlorophenol	87-86-5	< 0.400	~~U~~ UJ	11	0.400	ug/L
Phenanthrene	85-01-8	< 0.280	U	11	0.280	ug/L
Anthracene	120-12-7	< 0.160	U	11	0.160	ug/L
Carbazole	86-74-8	< 0.310	U	11	0.310	ug/L
Di-n-butylphthalate	84-74-2	< 0.100	U	11	0.100	ug/L
Fluoranthene	206-44-0	< 0.210	U	11	0.210	ug/L
Pyrene	129-00-0	< 0.250	U	11	0.250	ug/L
Butylbenzylphthalate	85-68-7	< 0.300	U	11	0.300	ug/L
3,3-Dichlorobenzidine	91-94-1	< 1.6	U	11	1.6	ug/L
Benzo(a)anthracene	56-55-3	< 0.230	U	11	0.230	ug/L
Chrysene	218-01-9	< 0.390	U	11	0.390	ug/L
bis(2-Ethylhexyl)phthalate	117-81-7	< ~~3.2~~ 0.35	~~U~~ U	11	0.350	ug/L
Di-n-octyl phthalate	117-84-0	< 0.180	U	11	0.180	ug/L
Benzo(b)fluoranthene	205-99-2	< 0.240	U	11	0.240	ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-03 Client ID: MW-2

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/19/2004 Matrix: WATER
Date Extracted: 7/14/2004 File ID: BB017087.D
Dilution: 1 Instrument ID: BNAB
Analytical Method: 8270 Analytical Run ID: BB071004
Sample Wt/Vol: 940.0 Extract Vol: 1000
Injection Vol: 2 % Moisture: 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 0.390	U	11	0.390	ug/L
Benzo(a)pyrene	50-32-8	< 0.460	U	11	0.460	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.300	U	11	0.300	ug/L
Dibenz(a,h)anthracene	53-70-3	< 0.300	U	11	0.300	ug/L
Benzo(g,h,i)perylene	191-24-2	< 0.430	U	11	0.430	ug/L
SURROGATES						
2-Fluorophenol	367-12-4	57.27	19 %	21 - 100		SPK: 300
Phenol-d5	13127-88-3	38.19	13 %	10 - 94		SPK: 300
Nitrobenzene-d5	4165-60-0	104.63	52 %	35 - 114		SPK: 200
2-Fluorobiphenyl	321-60-8	110.81	55 %	43 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	132.22	44 %	10 - 123		SPK: 300
Terphenyl-d14	1718-51-0	85.01	43 %	33 - 141		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	318661	6.43			
Naphthalene-d8	1146-65-2	1221543	8.74			
Acenaphthene-d10	15067-26-2	644508	12.21			
Phenanthrene-d10	1517-22-2	924377	15.20			
Chrysene-d12	1719-03-5	670151	20.57			
Perylene-d12	1520-96-3	530777	23.87			
TENTITIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~5.4~~	~~AB~~	~~4.07~~		~~ug/L~~ R
Hexadecanoic acid	57103	2.5	J	16.37		ug/L
~~Oleic Acid~~ organic acid	112801	6.6	J	17.81		ug/L
~~1-Dotriacontanol~~ alcohol	6624799	3.2	J	20.43		ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-04 | Client ID: MW-3

Date Collected: 7/8/2004 | Date Received: 7/10/2004
Date Analyzed: 7/15/2004 | Matrix: WATER
Date Extracted: 7/14/2004 | File ID: BB017036.D
Dilution: 1 | Instrument ID: BNAB
Analytical Method: 8270 | Analytical Run ID: BB071004
Sample Wt/Vol: 960.0 | Extract Vol: 1000
Injection Vol: 2 | % Moisture: 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 1.7	U	10	1.7	ug/L
Phenol	108-95-2	< 0.430	~~U~~ UJ	10	0.430	ug/L
bis(2-Chloroethyl)ether	111-44-4	< 0.330	U	10	0.330	ug/L
2-Chlorophenol	95-57-8	< 0.730	~~U~~ UJ	10	0.730	ug/L
2-Methylphenol	95-48-7	< 1.1	~~U~~ UJ	10	1.1	ug/L
2,2-oxybis(1-Chloropropane)	108-60-1	< 0.830	U	10	0.830	ug/L
Acetophenone	98-86-2	< 0.550	U	10	0.550	ug/L
3+4-Methylphenols	106-44-5	< 1.1	~~U~~ UJ	10	1.1	ug/L
N-Nitroso-di-n-propylamine	621-64-7	< 0.770	U	10	0.770	ug/L
Hexachloroethane	67-72-1	< 0.910	U	10	0.910	ug/L
Nitrobenzene	98-95-3	< 0.380	U	10	0.380	ug/L
Isophorone	78-59-1	< 0.480	U	10	0.480	ug/L
2-Nitrophenol	88-75-5	< 0.270	~~U~~ UJ	10	0.270	ug/L
2,4-Dimethylphenol	105-67-9	< 0.460	~~U~~ UJ	10	0.460	ug/L
bis(2-Chloroethoxy)methane	111-91-1	< 0.440	U	10	0.440	ug/L
2,4-Dichlorophenol	120-83-2	< 0.290	~~U~~ UJ	10	0.290	ug/L
Naphthalene	91-20-3	< 0.270	U	10	0.270	ug/L
4-Chloroaniline	106-47-8	< 4.1	U	10	4.1	ug/L
Hexachlorobutadiene	87-68-3	< 0.380	U	10	0.380	ug/L
Caprolactam	105-60-2	< 0.510	U	10	0.510	ug/L
4-Chloro-3-methylphenol	59-50-7	< 0.300	~~U~~ UJ	10	0.300	ug/L
2-Methylnaphthalene	91-57-6	< 0.500	U	10	0.500	ug/L
Hexachlorocyclopentadiene	77-47-4	< 0.450	U	10	0.450	ug/L
2,4,6-Trichlorophenol	88-06-2	< 0.280	~~U~~ UJ	10	0.280	ug/L
2,4,5-Trichlorophenol	95-95-4	< 0.580	~~U~~ UJ	10	0.580	ug/L
1,1-Biphenyl	92-52-4	< 0.270	U	10	0.270	ug/L
2-Chloronaphthalene	91-58-7	< 0.390	U	10	0.390	ug/L
2-Nitroaniline	88-74-4	< 0.300	U	10	0.300	ug/L
Dimethylphthalate	131-11-3	< 0.260	U	10	0.260	ug/L
Acenaphthylene	208-96-8	< 0.430	U	10	0.430	ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-04 Client ID: MW-3

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/15/2004 Matrix: WATER
Date Extracted: 7/14/2004 File ID: BB017036.D
Dilution: 1 Instrument ID: BNAB
Analytical Method: 8270 Analytical Run ID: BB071004
Sample Wt/Vol: 960.0 Extract Vol: 1000
Injection Vol: 2 % Moisture: 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 0.410	U	10	0.410	ug/L
3-Nitroaniline	99-09-2	< 1.0	U	10	1.0	ug/L
Acenaphthene	83-32-9	< 0.240	U	10	0.240	ug/L
2,4-Dinitrophenol	51-28-5	< 0.190	~~U~~ UJ	10	0.190	ug/L
4-Nitrophenol	100-02-7	< 0.940	~~U~~ UJ	10	0.940	ug/L
Dibenzofuran	132-64-9	< 0.310	U	10	0.310	ug/L
4-Dinitrotoluene	121-14-2	< 0.340	U	10	0.340	ug/L
Diethylphthalate	84-66-2	< 0.340	U	10	0.340	ug/L
4-Chlorophenyl-phenylether	7005-72-3	< 0.360	U	10	0.360	ug/L
Fluorene	86-73-7	< 0.170	U	10	0.170	ug/L
4-Nitroaniline	100-01-6	< 0.830	U	10	0.830	ug/L
4,6-Dinitro-2-methylphenol	534-52-1	< 1.4	~~U~~ UJ	10	1.4	ug/L
N-Nitrosodiphenylamine	86-30-6	< 0.280	U	10	0.280	ug/L
4-Bromophenyl-phenylether	101-55-3	< 0.170	U	10	0.170	ug/L
Hexachlorobenzene	118-74-1	< 0.230	U	10	0.230	ug/L
Atrazine	1912-24-9	< 0.480	U	10	0.480	ug/L
Pentachlorophenol	87-86-5	< 0.390	~~U~~ UJ	10	0.390	ug/L
Phenanthrene	85-01-8	< 0.270	U	10	0.270	ug/L
Anthracene	120-12-7	< 0.160	U	10	0.160	ug/L
Carbazole	86-74-8	< 0.310	U	10	0.310	ug/L
Di-n-butylphthalate	84-74-2	< 0.098	U	10	0.098	ug/L
Fluoranthene	206-44-0	< 0.210	U	10	0.210	ug/L
Pyrene	129-00-0	< 0.250	U	10	0.250	ug/L
Butylbenzylphthalate	85-68-7	< 0.300	U	10	0.300	ug/L
3,3-Dichlorobenzidine	91-94-1	< 1.6	U	10	1.6	ug/L
Benzo(a)anthracene	56-55-3	< 0.220	U	10	0.220	ug/L
Chrysene	218-01-9	< 0.380	U	10	0.380	ug/L
bis(2-Ethylhexyl)phthalate	117-81-7	~~< 2.5~~ 0.34	J U	10	0.340	ug/L
Di-n-octyl phthalate	117-84-0	< 0.170	U	10	0.170	ug/L
Benzo(b)fluoranthene	205-99-2	< 0.230	U	10	0.230	ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-04 Client ID: MW-3

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/15/2004 Matrix: WATER
Date Extracted: 7/14/2004 File ID: BB017036.D
Dilution: 1 Instrument ID: BNAB
Analytical Method: 8270 Analytical Run ID: BB071004
Sample Wt/Vol: 960.0 Extract Vol: 1000
Injection Vol: 2 % Moisture: 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 0.380	U	10	0.380	ug/L
Benzo(a)pyrene	50-32-8	< 0.450	U	10	0.450	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.290	U	10	0.290	ug/L
Dibenz(a,h)anthracene	53-70-3	< 0.290	U	10	0.290	ug/L
Benzo(g,h,i)perylene	191-24-2	< 0.420	U	10	0.420	ug/L
SURROGATES						
2-Fluorophenol	367-12-4	81.89	27 %	21 - 100		SPK: 300
Phenol-d5	13127-88-3	54.77	18 %	10 - 94		SPK: 300
Nitrobenzene-d5	4165-60-0	127.05	64 %	35 - 114		SPK: 200
2-Fluorobiphenyl	321-60-8	130.09	65 %	43 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	158.7	53 %	10 - 123		SPK: 300
Terphenyl-d14	1718-51-0	90.45	45 %	33 - 141		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	430782	6.52			
Naphthalene-d8	1146-65-2	1712630	8.82			
Acenaphthene-d10	15067-26-2	841466	12.30			
Phenanthrene-d10	1517-22-2	1232600	15.30			
Chrysene-d12	1719-03-5	930073	20.68			
Perylene-d12	1520-96-3	790767	24.04			
TENTATIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~6.3~~	~~AB~~	~~4.14~~		~~ug/L~~ R
Hexadecanoic acid	57103	2.8	J	16.46		ug/L
~~Oleic Acid~~ organic acid	112801	8.6	J	17.90		ug/L
~~1-Tetradecanol~~ alcohol	1653334	4.2	J	20.38		ug/L

MB

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-05 **Client ID:** MW-4

Date Collected: 7/8/2004 **Date Received:** 7/10/2004
Date Analyzed: 7/15/2004 **Matrix:** WATER
Date Extracted: 7/14/2004 **File ID:** BB017035.D
Dilution: 1 **Instrument ID:** BNAB
Analytical Method: 8270 **Analytical Run ID:** BB071004
Sample Wt/Vol: 960.0 **Extract Vol:** 1000
Injection Vol: 2 **% Moisture:** 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 1.7	U	10	1.7	ug/L
Phenol	108-95-2	< 0.430	~~U~~ UJ	10	0.430	ug/L
bis(2-Chloroethyl)ether	111-44-4	< 0.330	U	10	0.330	ug/L
2-Chlorophenol	95-57-8	< 0.730	~~U~~ UJ	10	0.730	ug/L
2-Methylphenol	95-48-7	< 1.1	~~U~~ UJ	10	1.1	ug/L
2,2-oxybis(1-Chloropropane)	108-60-1	< 0.830	U	10	0.830	ug/L
Acetophenone	98-86-2	< 0.550	U	10	0.550	ug/L
3+4-Methylphenols	106-44-5	< 1.1	~~U~~ UJ	10	1.1	ug/L
N-Nitroso-di-n-propylamine	621-64-7	< 0.770	U	10	0.770	ug/L
Hexachloroethane	67-72-1	< 0.910	U	10	0.910	ug/L
Nitrobenzene	98-95-3	< 0.380	U	10	0.380	ug/L
Isophorone	78-59-1	< 0.480	U	10	0.480	ug/L
2-Nitrophenol	88-75-5	< 0.270	~~U~~ UJ	10	0.270	ug/L
2,4-Dimethylphenol	105-67-9	< 0.460	~~U~~ UJ	10	0.460	ug/L
bis(2-Chloroethoxy)methane	111-91-1	< 0.440	U	10	0.440	ug/L
2,4-Dichlorophenol	120-83-2	< 0.290	~~U~~ UJ	10	0.290	ug/L
Naphthalene	91-20-3	< 0.270	U	10	0.270	ug/L
4-Chloroaniline	106-47-8	< 4.1	U	10	4.1	ug/L
Hexachlorobutadiene	87-68-3	< 0.380	U	10	0.380	ug/L
Caprolactam	105-60-2	< 0.510	U	10	0.510	ug/L
4-Chloro-3-methylphenol	59-50-7	< 0.300	~~U~~ UJ	10	0.300	ug/L
2-Methylnaphthalene	91-57-6	< 0.500	U	10	0.500	ug/L
Hexachlorocyclopentadiene	77-47-4	< 0.450	U	10	0.450	ug/L
2,4,6-Trichlorophenol	88-06-2	< 0.280	~~U~~ UJ	10	0.280	ug/L
2,4,5-Trichlorophenol	95-95-4	< 0.580	~~U~~ UJ	10	0.580	ug/L
1,1-Biphenyl	92-52-4	< 0.270	U	10	0.270	ug/L
2-Chloronaphthalene	91-58-7	< 0.390	U	10	0.390	ug/L
2-Nitroaniline	88-74-4	< 0.300	U	10	0.300	ug/L
Dimethylphthalate	131-11-3	< 0.260	U	10	0.260	ug/L
Acenaphthylene	208-96-8	< 0.430	U	10	0.430	ug/L

SVOC

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-05 **Client ID:** MW-4

Date Collected: 7/8/2004 **Date Received:** 7/10/2004
Date Analyzed: 7/15/2004 **Matrix:** WATER
Date Extracted: 7/14/2004 **File ID:** BB017035.D
Dilution: 1 **Instrument ID:** BNAB
Analytical Method: 8270 **Analytical Run ID:** BB071004
Sample Wt/Vol: 960.0 **Extract Vol:** 1000
Injection Vol: 2 **% Moisture:** 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 0.410	U	10	0.410	ug/L
3-Nitroaniline	99-09-2	< 1.0	U	10	1.0	ug/L
Acenaphthene	83-32-9	< 0.240	U	10	0.240	ug/L
2,4-Dinitrophenol	51-28-5	< 0.190	~~U~~ UJ	10	0.190	ug/L
4-Nitrophenol	100-02-7	< 0.940	~~U~~ UJ	10	0.940	ug/L
Dibenzofuran	132-64-9	< 0.310	U	10	0.310	ug/L
2,4-Dinitrotoluene	121-14-2	< 0.340	U	10	0.340	ug/L
Diethylphthalate	84-66-2	< 0.340	U	10	0.340	ug/L
4-Chlorophenyl-phenylether	7005-72-3	< 0.360	U	10	0.360	ug/L
Fluorene	86-73-7	< 0.170	U	10	0.170	ug/L
4-Nitroaniline	100-01-6	< 0.830	U	10	0.830	ug/L
4,6-Dinitro-2-methylphenol	534-52-1	< 1.4	~~U~~ UJ	10	1.4	ug/L
N-Nitrosodiphenylamine	86-30-6	< 0.280	U	10	0.280	ug/L
4-Bromophenyl-phenylether	101-55-3	< 0.170	U	10	0.170	ug/L
Hexachlorobenzene	118-74-1	< 0.230	U	10	0.230	ug/L
Atrazine	1912-24-9	< 0.480	U	10	0.480	ug/L
Pentachlorophenol	87-86-5	< 0.390	~~U~~ UJ	10	0.390	ug/L
Phenanthrene	85-01-8	< 0.270	U	10	0.270	ug/L
Anthracene	120-12-7	< 0.160	U	10	0.160	ug/L
Carbazole	86-74-8	< 0.310	U	10	0.310	ug/L
Di-n-butylphthalate	84-74-2	< 0.098	U	10	0.098	ug/L
Fluoranthene	206-44-0	< 0.210	U	10	0.210	ug/L
Pyrene	129-00-0	< 0.250	U	10	0.250	ug/L
Butylbenzylphthalate	85-68-7	< 0.300	U	10	0.300	ug/L
3,3-Dichlorobenzidine	91-94-1	< 1.6	U	10	1.6	ug/L
Benzo(a)anthracene	56-55-3	< 0.220	U	10	0.220	ug/L
Chrysene	218-01-9	< 0.380	U	10	0.380	ug/L
bis(2-Ethylhexyl)phthalate	117-81-7	~~< 2.6~~ 0.34	~~U~~ U	10	0.340	ug/L
Di-n-octyl phthalate	117-84-0	< 0.170	U	10	0.170	ug/L
Benzo(b)fluoranthene	205-99-2	< 0.230	U	10	0.230	ug/L

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SVOC

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-05 Client ID: MW-4

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/15/2004 Matrix: WATER
Date Extracted: 7/14/2004 File ID: BB017035.D
Dilution: 1 Instrument ID: BNAB
Analytical Method: 8270 Analytical Run ID: BB071004
Sample Wt/Vol: 960.0 Extract Vol: 1000
Injection Vol: 2 % Moisture: 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 0.380	U	10	0.380	ug/L
Benzo(a)pyrene	50-32-8	< 0.450	U	10	0.450	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.290	U	10	0.290	ug/L
Dibenz(a,h)anthracene	53-70-3	< 0.290	U	10	0.290	ug/L
Benzo(g,h,i)perylene	191-24-2	< 0.420	U	10	0.420	ug/L
SURROGATES						
2-Fluorophenol	367-12-4	69.61	23 %	21 - 100		SPK: 300
Phenol-d5	13127-88-3	45.9	15 %	10 - 94		SPK: 300
Nitrobenzene-d5	4165-60-0	126.26	63 %	35 - 114		SPK: 200
2-Fluorobiphenyl	321-60-8	131.38	66 %	43 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	146.75	49 %	10 - 123		SPK: 300
Terphenyl-d14	1718-51-0	88.38	44 %	33 - 141		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	418590	6.52			
Naphthalene-d8	1146-65-2	1613450	8.83			
Acenaphthene-d10	15067-26-2	805076	12.31			
Phenanthrene-d10	1517-22-2	1164945	15.30			
Chrysene-d12	1719-03-5	891432	20.68			
Perylene-d12	1520-96-3	770175	24.04			
TENTITIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~6.2~~	~~AB~~	~~4.14~~		~~ug/L~~ R
Hexadecanoic acid	57103	3.8	J	16.46		ug/L
~~Oleic Acid~~ organic acid	112801	21	J	17.91		ug/L
Unknown		3.1	J	18.88		ug/L
~~1-Eicosanol~~ alcohol	629969	6.0	J	20.38		ug/L
~~Thiazolidine~~ unknown	504789	2.0	J	22.65		ug/L
~~Cyclohexane, isocyanato-~~ unknown	3173533	2.2	J	25.45		ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-06 **Client ID:** MW-5

Date Collected: 7/8/2004 **Date Received:** 7/10/2004
Date Analyzed: 7/15/2004 **Matrix:** WATER
Date Extracted: 7/14/2004 **File ID:** BB017034.D
Dilution: 1 **Instrument ID:** BNAB
Analytical Method: 8270 **Analytical Run ID:** BB071004
Sample Wt/Vol: 960.0 **Extract Vol:** 1000
Injection Vol: 2 **% Moisture:** 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 1.7	U	10	1.7	ug/L
Phenol	108-95-2	< 0.430	~~U~~ UJ	10	0.430	ug/L
bis(2-Chloroethyl)ether	111-44-4	< 0.330	U	10	0.330	ug/L
2-Chlorophenol	95-57-8	< 0.730	~~U~~ UJ	10	0.730	ug/L
2-Methylphenol	95-48-7	< 1.1	~~U~~ UJ	10	1.1	ug/L
2,2-oxybis(1-Chloropropane)	108-60-1	< 0.830	U	10	0.830	ug/L
Acetophenone	98-86-2	< 0.550	U	10	0.550	ug/L
3+4-Methylphenols	106-44-5	< 1.1	~~U~~ UJ	10	1.1	ug/L
N-Nitroso-di-n-propylamine	621-64-7	< 0.770	U	10	0.770	ug/L
Hexachloroethane	67-72-1	< 0.910	U	10	0.910	ug/L
Nitrobenzene	98-95-3	< 0.380	U	10	0.380	ug/L
Isophorone	78-59-1	< 0.480	U	10	0.480	ug/L
2-Nitrophenol	88-75-5	< 0.270	~~U~~ UJ	10	0.270	ug/L
2,4-Dimethylphenol	105-67-9	< 0.460	~~U~~ UJ	10	0.460	ug/L
bis(2-Chloroethoxy)methane	111-91-1	< 0.440	U	10	0.440	ug/L
2,4-Dichlorophenol	120-83-2	< 0.290	~~U~~ UJ	10	0.290	ug/L
Naphthalene	91-20-3	< 0.270	U	10	0.270	ug/L
4-Chloroaniline	106-47-8	< 4.1	U	10	4.1	ug/L
Hexachlorobutadiene	87-68-3	< 0.380	U	10	0.380	ug/L
Caprolactam	105-60-2	< 0.510	U	10	0.510	ug/L
4-Chloro-3-methylphenol	59-50-7	< 0.300	~~U~~ UJ	10	0.300	ug/L
2-Methylnaphthalene	91-57-6	< 0.500	U	10	0.500	ug/L
Hexachlorocyclopentadiene	77-47-4	< 0.450	U	10	0.450	ug/L
2,4,6-Trichlorophenol	88-06-2	< 0.280	~~U~~ UJ	10	0.280	ug/L
2,4,5-Trichlorophenol	95-95-4	< 0.580	~~U~~ UJ	10	0.580	ug/L
1,1-Biphenyl	92-52-4	< 0.270	U	10	0.270	ug/L
2-Chloronaphthalene	91-58-7	< 0.390	U	10	0.390	ug/L
2-Nitroaniline	88-74-4	< 0.300	U	10	0.300	ug/L
Dimethylphthalate	131-11-3	< 0.260	U	10	0.260	ug/L
Acenaphthylene	208-96-8	< 0.430	U	10	0.430	ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-06 **Client ID:** MW-5

Date Collected: 7/8/2004 **Date Received:** 7/10/2004
Date Analyzed: 7/15/2004 **Matrix:** WATER
Date Extracted: 7/14/2004 **File ID:** BB017034.D
Dilution: 1 **Instrument ID:** BNAB
Analytical Method: 8270 **Analytical Run ID:** BB071004
Sample Wt/Vol: 960.0 **Extract Vol:** 1000
Injection Vol: 2 **% Moisture:** 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 0.410	U	10	0.410	ug/L
3-Nitroaniline	99-09-2	< 1.0	U	10	1.0	ug/L
Acenaphthene	83-32-9	< 0.240	U	10	0.240	ug/L
2,4-Dinitrophenol	51-28-5	< 0.190	~~U~~ UJ	10	0.190	ug/L
4-Nitrophenol	100-02-7	< 0.940	~~U~~ UJ	10	0.940	ug/L
Dibenzofuran	132-64-9	< 0.310	U	10	0.310	ug/L
2,4-Dinitrotoluene	121-14-2	< 0.340	U	10	0.340	ug/L
Diethylphthalate	84-66-2	< 0.340	U	10	0.340	ug/L
4-Chlorophenyl-phenylether	7005-72-3	< 0.360	U	10	0.360	ug/L
Fluorene	86-73-7	< 0.170	U	10	0.170	ug/L
4-Nitroaniline	100-01-6	< 0.830	U	10	0.830	ug/L
4,6-Dinitro-2-methylphenol	534-52-1	< 1.4	~~U~~ UJ	10	1.4	ug/L
N-Nitrosodiphenylamine	86-30-6	< 0.280	U	10	0.280	ug/L
4-Bromophenyl-phenylether	101-55-3	< 0.170	U	10	0.170	ug/L
Hexachlorobenzene	118-74-1	< 0.230	U	10	0.230	ug/L
Atrazine	1912-24-9	< 0.480	U	10	0.480	ug/L
Pentachlorophenol	87-86-5	< 0.390	~~U~~ UJ	10	0.390	ug/L
Phenanthrene	85-01-8	< 0.270	U	10	0.270	ug/L
Anthracene	120-12-7	< 0.160	U	10	0.160	ug/L
Carbazole	86-74-8	< 0.310	U	10	0.310	ug/L
Di-n-butylphthalate	84-74-2	< 0.098	U	10	0.098	ug/L
Fluoranthene	206-44-0	< 0.210	U	10	0.210	ug/L
Pyrene	129-00-0	< 0.250	U	10	0.250	ug/L
Butylbenzylphthalate	85-68-7	< 0.300	U	10	0.300	ug/L
3,3-Dichlorobenzidine	91-94-1	< 1.6	U	10	1.6	ug/L
Benzo(a)anthracene	56-55-3	< 0.220	U	10	0.220	ug/L
Chrysene	218-01-9	< 0.380	U	10	0.380	ug/L
bis(2-Ethylhexyl)phthalate	117-81-7	~~< 1.8~~ 0.34 J	~~U~~	10	0.340	ug/L
Di-n-octyl phthalate	117-84-0	< 0.170	U	10	0.170	ug/L
Benzo(b)fluoranthene	205-99-2	< 0.230	U	10	0.230	ug/L

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SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-06 **Client ID:** MW-5

Date Collected: 7/8/2004 **Date Received:** 7/10/2004
Date Analyzed: 7/15/2004 **Matrix:** WATER
Date Extracted: 7/14/2004 **File ID:** BB017034.D
Dilution: 1 **Instrument ID:** BNAB
Analytical Method: 8270 **Analytical Run ID:** BB071004
Sample Wt/Vol: 960.0 **Extract Vol:** 1000
Injection Vol: 2 **% Moisture:** 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 0.380	U	10	0.380	ug/L
Benzo(a)pyrene	50-32-8	< 0.450	U	10	0.450	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.290	U	10	0.290	ug/L
Dibenz(a,h)anthracene	53-70-3	< 0.290	U	10	0.290	ug/L
Benzo(g,h,i)perylene	191-24-2	< 0.420	U	10	0.420	ug/L
SURROGATES						
2-Fluorophenol	367-12-4	59.34	20 %	21 - 100		SPK: 300
Phenol-d5	13127-88-3	42.3	14 %	10 - 94		SPK: 300
Nitrobenzene-d5	4165-60-0	128.77	64 %	35 - 114		SPK: 200
2-Fluorobiphenyl	321-60-8	127.65	64 %	43 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	137.59	46 %	10 - 123		SPK: 300
Terphenyl-d14	1718-51-0	94.89	47 %	33 - 141		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	422217	6.52			
Naphthalene-d8	1146-65-2	1595829	8.83			
Acenaphthene-d10	15067-26-2	830608	12.31			
Phenanthrene-d10	1517-22-2	1189297	15.30			
Chrysene-d12	1719-03-5	904022	20.68			
Perylene-d12	1520-96-3	791994	24.04			
TENTITIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~6.7~~	~~AB~~	~~4.14~~		~~ug/L~~ R
~~1-Iodo-2,3-epoxypropane~~ unknown	624577	14	J	4.61		ug/L
~~1,4-Cyclohexanedione~~ unknown	637887	5.3	J	5.26		ug/L
~~1-Hexanol, 2-ethyl-~~ alcohol	104767	13	J	6.64		ug/L
~~Ethanol, 2-[(2-ethylhexyl)oxy]-~~ unknown	1559359	5.7	J	9.30		ug/L
Benzoic acid, ~~3,~~4-dichloro-	51445	47	J	12.58		ug/L
~~eptadecane~~ alkane	629787	9.3	J	14.17		ug/L
~~Ethanol, 2-[2-(2-butoxyethoxy)ethc~~	143226	10	J	14.99		ug/L
~~Heptadecane, 8-methyl-~~ unknown alkane	13287235	8.1	J	15.08		ug/L

SVOC

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-06 Client ID: MW-5

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/15/2004 Matrix: WATER
Date Extracted: 7/14/2004 File ID: BB017034.D
Dilution: 1 Instrument ID: BNAB
Analytical Method: 8270 Analytical Run ID: BB071004
Sample Wt/Vol: 960.0 Extract Vol: 1000
Injection Vol: 2 % Moisture: 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TENTITIVE IDENTIFIED COMPOUNDS						
~~Dodecane, 2-methyl-6-propyl-~~ unknown	55045084	6.7	J	15.94		ug/L
Hexadecanoic acid	57103	4.0	J	16.46		ug/L
~~2-Hexadecanol~~ unknown	14852314	12	J	16.78		ug/L
Unknown		11	J	17.28		ug/L
Oleic Acid	112801	21	J	17.91		ug/L
~~Ethanol, 2-(2-butoxyethoxy)~~ unknown	112345	26	J	18.88		ug/L
~~3,6,9,12,15-Pentaoxanonadecan-1-~~ unknown	1786943	6.8	J	19.32		ug/L
~~9-Eicosene, (E)~~ unknown	74685306	5.2	J	20.38		ug/L
~~Ethanol, 2-[2-[2-[4-(1,1,3,3-tetrame~~ unknown	2315620	4.0	J	20.98		ug/L
~~1,1-Bis(3,6,9,12,15-pentaoxacyclo~~ unknown	0	6.1	J	21.13		ug/L
~~8-Undecene, 4,5-dimethyl-, [R-(R*,S*~~ unknown	55170939	3.9	J	21.70		ug/L
~~Acetaldehyde, tetramer~~ unknown	108623	18	J	22.66		ug/L
~~Hydrazine, (2-phenylethyl)-~~ unknown	51718	5.3	J	22.70		ug/L
~~2,5,8,11,14-Pentaoxahexadecan-16-~~ unknown	23778521	4.5	J	23.15		ug/L
~~Dicyclohexano-24-crown-8~~ unknown	17455231	8.5	J	25.36		ug/L
~~1,4,7,10,13,16-Hexaoxacyclooctad~~ unknown	17455139	5.0	J	25.47		ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-08 **Client ID:** MW-3DUP

Date Collected: 7/8/2004 **Date Received:** 7/10/2004
Date Analyzed: 7/15/2004 **Matrix:** WATER
Date Extracted: 7/14/2004 **File ID:** BB017032.D
Dilution: 1 **Instrument ID:** BNAB
Analytical Method: 8270 **Analytical Run ID:** BB071004
Sample Wt/Vol: 950.0 **Extract Vol:** 1000
Injection Vol: 2 **% Moisture:** 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzaldehyde	100-52-7	< 1.7	U	11	1.7	ug/L
Phenol	108-95-2	< 0.430	U	11	0.430	ug/L
bis(2-Chloroethyl)ether	111-44-4	< 0.330	U	11	0.330	ug/L
2-Chlorophenol	95-57-8	< 0.730	U	11	0.730	ug/L
2-Methylphenol	95-48-7	< 1.1	U	11	1.1	ug/L
2,2-oxybis(1-Chloropropane)	108-60-1	< 0.840	U	11	0.840	ug/L
Acetophenone	98-86-2	< 0.560	U	11	0.560	ug/L
3+4-Methylphenols	106-44-5	< 1.1	U	11	1.1	ug/L
N-Nitroso-di-n-propylamine	621-64-7	< 0.770	U	11	0.770	ug/L
Hexachloroethane	67-72-1	< 0.920	U	11	0.920	ug/L
Nitrobenzene	98-95-3	< 0.380	U	11	0.380	ug/L
Isophorone	78-59-1	< 0.480	U	11	0.480	ug/L
2-Nitrophenol	88-75-5	< 0.270	U	11	0.270	ug/L
2,4-Dimethylphenol	105-67-9	< 0.470	U	11	0.470	ug/L
bis(2-Chloroethoxy)methane	111-91-1	< 0.450	U	11	0.450	ug/L
2,4-Dichlorophenol	120-83-2	< 0.290	U	11	0.290	ug/L
Naphthalene	91-20-3	< 0.270	U	11	0.270	ug/L
4-Chloroaniline	106-47-8	< 4.1	U	11	4.1	ug/L
Hexachlorobutadiene	87-68-3	< 0.380	U	11	0.380	ug/L
Caprolactam	105-60-2	< 0.510	U	11	0.510	ug/L
4-Chloro-3-methylphenol	59-50-7	< 0.300	U	11	0.300	ug/L
2-Methylnaphthalene	91-57-6	< 0.500	U	11	0.500	ug/L
Hexachlorocyclopentadiene	77-47-4	< 0.460	U	11	0.460	ug/L
2,4,6-Trichlorophenol	88-06-2	< 0.290	U	11	0.290	ug/L
2,4,5-Trichlorophenol	95-95-4	< 0.590	U	11	0.590	ug/L
1,1-Biphenyl	92-52-4	< 0.270	U	11	0.270	ug/L
2-Chloronaphthalene	91-58-7	< 0.390	U	11	0.390	ug/L
2-Nitroaniline	88-74-4	< 0.300	U	11	0.300	ug/L
Dimethylphthalate	131-11-3	< 0.260	U	11	0.260	ug/L
Acenaphthylene	208-96-8	< 0.440	U	11	0.440	ug/L

Chemtech Consulting Group

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-08 **Client ID:** MW-3DUP

Date Collected: 7/8/2004 **Date Received:** 7/10/2004
Date Analyzed: 7/15/2004 **Matrix:** WATER
Date Extracted: 7/14/2004 **File ID:** BB017032.D
Dilution: 1 **Instrument ID:** BNAB
Analytical Method: 8270 **Analytical Run ID:** BB071004
Sample Wt/Vol: 950.0 **Extract Vol:** 1000
Injection Vol: 2 **% Moisture:** 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
2,6-Dinitrotoluene	606-20-2	< 0.420	U	11	0.420	ug/L
3-Nitroaniline	99-09-2	< 1.1	U	11	1.1	ug/L
Acenaphthene	83-32-9	< 0.240	U	11	0.240	ug/L
2,4-Dinitrophenol	51-28-5	< 0.190	U	11	0.190	ug/L
4-Nitrophenol	100-02-7	< 0.950	U	11	0.950	ug/L
Dibenzofuran	132-64-9	< 0.320	U	11	0.320	ug/L
2,4-Dinitrotoluene	121-14-2	< 0.340	U	11	0.340	ug/L
Diethylphthalate	84-66-2	< 0.340	U	11	0.340	ug/L
4-Chlorophenyl-phenylether	7005-72-3	< 0.370	U	11	0.370	ug/L
Fluorene	86-73-7	< 0.170	U	11	0.170	ug/L
4-Nitroaniline	100-01-6	< 0.840	U	11	0.840	ug/L
4,6-Dinitro-2-methylphenol	534-52-1	< 1.5	U	11	1.5	ug/L
N-Nitrosodiphenylamine	86-30-6	< 0.280	U	11	0.280	ug/L
4-Bromophenyl-phenylether	101-55-3	< 0.170	U	11	0.170	ug/L
Hexachlorobenzene	118-74-1	< 0.230	U	11	0.230	ug/L
Atrazine	1912-24-9	< 0.480	U	11	0.480	ug/L
Pentachlorophenol	87-86-5	< 0.390	U	11	0.390	ug/L
Phenanthrene	85-01-8	< 0.280	U	11	0.280	ug/L
Anthracene	120-12-7	< 0.160	U	11	0.160	ug/L
Carbazole	86-74-8	< 0.310	U	11	0.310	ug/L
Di-n-butylphthalate	84-74-2	< 0.099	U	11	0.099	ug/L
Fluoranthene	206-44-0	< 0.210	U	11	0.210	ug/L
Pyrene	129-00-0	< 0.250	U	11	0.250	ug/L
Butylbenzylphthalate	85-68-7	< 0.300	U	11	0.300	ug/L
3,3-Dichlorobenzidine	91-94-1	< 1.6	U	11	1.6	ug/L
Benzo(a)anthracene	56-55-3	< 0.230	U	11	0.230	ug/L
Chrysene	218-01-9	< 0.390	U	11	0.390	ug/L
bis(2-Ethylhexyl)phthalate	117-81-7	~~< 2.0~~ 0.34	~~U~~ J	11	0.350	ug/L
Di-n-octyl phthalate	117-84-0	< 0.170	U	11	0.170	ug/L
Benzo(b)fluoranthene	205-99-2	< 0.230	U	11	0.230	ug/L

SVOC

SDG No.: S3529
Client: Chazen Companies

Sample ID: S3529-08 Client ID: MW-3DUP

Date Collected: 7/8/2004 Date Received: 7/10/2004
Date Analyzed: 7/15/2004 Matrix: WATER
Date Extracted: 7/14/2004 File ID: BB017032.D
Dilution: 1 Instrument ID: BNAB
Analytical Method: 8270 Analytical Run ID: BB071004
Sample Wt/Wol: 950.0 Extract Vol: 1000
Injection Vol: 2 % Moisture: 100
Associated Blank: PB16271B

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Benzo(k)fluoranthene	207-08-9	< 0.390	U	11	0.390	ug/L
Benzo(a)pyrene	50-32-8	< 0.450	U	11	0.450	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.290	U	11	0.290	ug/L
Dibenz(a,h)anthracene	53-70-3	< 0.290	U	11	0.290	ug/L
Benzo(g,h,i)perylene	191-24-2	< 0.430	U	11	0.430	ug/L
SURROGATES						
2-Fluorophenol	367-12-4	78.11	26 %	21 - 100		SPK: 300
Phenol-d5	13127-88-3	52.76	18 %	10 - 94		SPK: 300
Nitrobenzene-d5	4165-60-0	122.51	61 %	35 - 114		SPK: 200
2-Fluorobiphenyl	321-60-8	126.29	63 %	43 - 116		SPK: 200
2,4,6-Tribromophenol	118-79-6	148.6	50 %	10 - 123		SPK: 300
Terphenyl-d14	1718-51-0	100.75	50 %	33 - 141		SPK: 200
INTERNAL STANDARDS						
1,4-Dichlorobenzene-d4	3855-82-1	426512	6.52			
Naphthalene-d8	1146-65-2	1711061	8.83			
Acenaphthene-d10	15067-26-2	847322	12.31			
Phenanthrene-d10	1517-22-2	1232393	15.30			
Chrysene-d12	1719-03-5	918637	20.68			
Perylene-d12	1520-96-3	784047	24.05			
TENTITIVE IDENTIFIED COMPOUNDS						
~~ACP~~		~~6.2~~	~~AB~~	~~4.15~~		~~ug/L~~
~~Tetradecanoic acid~~ organic acid	544638	2.5	J	16.46		ug/L
~~Oleic Acid~~ organic acid	112801	8.8	J	17.90		ug/L
~~1-Hexacosanol~~ unknown	506525	4.6	J	20.38		ug/L

BB

Chemtech Consulting Group

Surrogate Summary
SW-846

SDG No.: S3529
Client: Chazen Companies
Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
PB16271B	SBLK01	2-Fluorophenol	300	209.32	70		21.00	100.00
		Phenol-d5	300	220.82	74		10.00	94.00
		Nitrobenzene-d5	200	135.24	68		35.00	114.00
		2-Fluorobiphenyl	200	138.26	69		43.00	116.00
		2,4,6-Tribromophenol	300	168.63	56		10.00	123.00
		Terphenyl-d14	200	117.95	59		33.00	141.00
PB16271BS	SLCS01	2-Fluorophenol	300	210.4	70		21.00	100.00
		Phenol-d5	300	216.69	72		10.00	94.00
		Nitrobenzene-d5	200	141.43	71		35.00	114.00
		2-Fluorobiphenyl	200	144.26	72		43.00	116.00
		2,4,6-Tribromophenol	300	175.08	58		10.00	123.00
		Terphenyl-d14	200	119.55	60		33.00	141.00
S3529-01	MW-1	2-Fluorophenol	300	68.3	23		21.00	100.00
		Phenol-d5	300	44.77	15		10.00	94.00
		Nitrobenzene-d5	200	131.94	66		35.00	114.00
		2-Fluorobiphenyl	200	142.51	71		43.00	116.00
		2,4,6-Tribromophenol	300	148.73	50		10.00	123.00
		Terphenyl-d14	200	90.87	45		33.00	141.00
S3529-02	MW-6	2-Fluorophenol	300	72.96	24		21.00	100.00
		Phenol-d5	300	48.83	16		10.00	94.00
		Nitrobenzene-d5	200	127.57	64		35.00	114.00
		2-Fluorobiphenyl	200	131.9	66		43.00	116.00
		2,4,6-Tribromophenol	300	146.74	49		10.00	123.00
		Terphenyl-d14	200	89	45		33.00	141.00
S3529-03	MW-2	2-Fluorophenol	300	57.27	19	*	21.00	100.00
		Phenol-d5	300	38.19	13		10.00	94.00
		Nitrobenzene-d5	200	104.63	52		35.00	114.00
		2-Fluorobiphenyl	200	110.81	55		43.00	116.00
		2,4,6-Tribromophenol	300	132.22	44		10.00	123.00
		Terphenyl-d14	200	85.01	43		33.00	141.00
S3529-04	MW-3	2-Fluorophenol	300	81.89	27		21.00	100.00
		Phenol-d5	300	54.77	18		10.00	94.00
		Nitrobenzene-d5	200	127.05	64		35.00	114.00
		2-Fluorobiphenyl	200	130.09	65		43.00	116.00
		2,4,6-Tribromophenol	300	158.7	53		10.00	123.00
		Terphenyl-d14	200	90.45	45		33.00	141.00
S3529-05	MW-4	2-Fluorophenol	300	69.61	23		21.00	100.00
		Phenol-d5	300	45.9	15		10.00	94.00
		Nitrobenzene-d5	200	126.26	63		35.00	114.00
		2-Fluorobiphenyl	200	131.38	66		43.00	116.00
		2,4,6-Tribromophenol	300	146.75	49		10.00	123.00
		Terphenyl-d14	200	88.38	44		33.00	141.00

Surrogate Summary
SW-846

SDG No.: S3529
nt: Chazen Companies
Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
S3529-06	MW-5	2-Fluorophenol	300	59.34	20	*	21.00	100.00
		Phenol-d5	300	42.3	14		10.00	94.00
		Nitrobenzene-d5	200	128.77	64		35.00	114.00
		2-Fluorobiphenyl	200	127.65	64		43.00	116.00
		2,4,6-Tribromophenol	300	137.59	46		10.00	123.00
		Terphenyl-d14	200	94.89	47		33.00	141.00
S3529-08	MW-3DUP	2-Fluorophenol	300	78.11	26		21.00	100.00
		Phenol-d5	300	52.76	18		10.00	94.00
		Nitrobenzene-d5	200	122.51	61		35.00	114.00
		2-Fluorobiphenyl	200	126.29	63		43.00	116.00
		2,4,6-Tribromophenol	300	148.6	50		10.00	123.00
		Terphenyl-d14	200	100.75	50		33.00	141.00

Chemtech Consulting Group

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: S3529

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
PB16271BS	Phenol	50	40	80			18	37	
	bis(2-Chloroethyl)ether	50	38	76			47	94	
	2-Chlorophenol	50	37	74			45	87	
	2-Methylphenol	50	40	80			28	89	
	2,2-oxybis(1-Chloropropane)	50	36	72			44	99	
	3+4-Methylphenols	50	40	80			35	110	
	N-Nitroso-di-n-propylamine	50	38	76			48	96	
	Hexachloroethane	50	37	74			38	104	
	Nitrobenzene	50	38	76			51	100	
	Isophorone	50	40	80			57	99	
	2-Nitrophenol	50	43	86			50	105	
	2,4-Dimethylphenol	50	40	80			44	97	
	bis(2-Chloroethoxy)methane	50	42	84			65	100	
	2,4-Dichlorophenol	50	42	84			50	94	
	Naphthalene	50	38	76			57	99	
	4-Chloroaniline	50	11	22			20	84	
	Hexachlorobutadiene	50	42	84			44	103	
	4-Chloro-3-methylphenol	50	46	92			39	101	
	2-Methylnaphthalene	50	38	76			56	104	
	Hexachlorocyclopentadiene	100	71	71			20	100	
	2,4,6-Trichlorophenol	50	40	80			45	99	
	2,4,5-Trichlorophenol	50	40	80			43	102	
	1,1-Biphenyl	50	45	90			20	150	
	2-Chloronaphthalene	50	43	86			56	103	
	2-Nitroaniline	50	43	86			55	113	
	Dimethylphthalate	50	44	88			58	105	
	Acenaphthylene	50	43	86			60	98	
	2,6-Dinitrotoluene	50	43	86			60	103	
	3-Nitroaniline	50	24	48			25	96	
	Acenaphthene	50	43	86			56	104	
	2,4-Dinitrophenol	100	84	84			20	112	
	4-Nitrophenol	100	94	94			20	115	
	Dibenzofuran	50	40	80			50	130	
	2,4-Dinitrotoluene	50	44	88			57	103	
	Diethylphthalate	50	44	88			58	103	
	4-Chlorophenyl-phenylether	50	38	76			45	105	
	Fluorene	50	41	82			61	104	
	4-Nitroaniline	50	44	88			41	126	
	4,6-Dinitro-2-methylphenol	50	46	92			35	105	
	N-Nitrosodiphenylamine	50	45	90			70	115	
	4-Bromophenyl-phenylether	50	43	86			60	110	
	Hexachlorobenzene	50	42	84			56	110	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: S3529

Client: Chazen Companies

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
PB16271BS	Atrazine	50	45	90			20	150	
	Pentachlorophenol	100	71	71			20	125	
	Phenanthrene	50	45	90			60	110	
	Anthracene	50	44	88			60	110	
	Carbazole	50	52	104			57	115	
	Di-n-butylphthalate	50	44	88			58	103	
	Fluoranthene	50	43	86			60	110	
	Pyrene	50	44	88			50	110	
	Butylbenzylphthalate	50	47	94			57	115	
	3,3-Dichlorobenzidine	50	28	56			33	121	
	Benzo(a)anthracene	50	46	92			60	105	
	Chrysene	50	45	90			57	108	
	bis(2-Ethylhexyl)phthalate	50	48	96			58	123	
	Di-n-octyl phthalate	50	49	98			66	124	
	Benzo(b)fluoranthene	50	38	76			49	116	
	Benzo(k)fluoranthene	50	41	82			52	111	
	Benzo(a)pyrene	50	41	82			58	102	
	Indeno(1,2,3-cd)pyrene	50	44	88			35	127	
	Dibenz(a,h)anthracene	50	42	84			53	127	
	Benzo(g,h,i)perylene	50	40	80			42	121	

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3529 SAS No.: S3529 SDG NO.: S3529

Lab File ID: BB017029.D Lab Sample ID: PB16271B

Instrument ID: BNAB Date Extracted: 7/14/2004

Matrix: (soil/water) WATER Date Analyzed: 7/15/2004

Level: (low/med) LOW Time Analyzed: 18:39

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS01	PB16271BS	BB017030.D	7/15/2004
02	MW-1	S3529-01	BB017031.D	7/15/2004
03	MW-3DUP	S3529-08	BB017032.D	7/15/2004
04	MW-6	S3529-02	BB017033.D	7/15/2004
05	MW-5	S3529-06	BB017034.D	7/15/2004
06	MW-4	S3529-05	BB017035.D	7/15/2004
07	MW-3	S3529-04	BB017036.D	7/15/2004
08	MW-2	S3529-03	BB017087.D	7/19/2004

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3529 SAS No.: S3529 SDG NO.: S3529

Lab File ID: BB016874.D DFTPP Injection Date: 7/10/2004

Instrument ID: BNAB DFTPP Injection Time: 17:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.0
68	Less than 2.0% of mass 69	0.1 (0.1) 1
69	Mass 69 relative abundance	49.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	40.0 - 60.0% of mass 198	48.8
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	16.3
365	Greater than 1% of mass 198	1.4
441	Present, but less than mass 443	0.7 ~~0.0~~
442	Greater than 40% of mass 198	54.7
443	17.0 - 23.0% of mass 442	10.4(19.0) 2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	80 ng BNA ICC	BB016875.D	7/10/2004	17:58
02	SSTD160	160 ng BNA ICC	BB016876.D	7/10/2004	18:39
03	SSTD020	20 ng BNA ICC	BB016877.D	7/10/2004	19:21
04	SSTD120	120 ng BNA ICC	BB016878.D	7/10/2004	20:02
05	SSTD050	50 ng BNA ICC	BB016879.D	7/10/2004	20:43

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3529 SAS No.: S3529 SDG NO.: S3529

Lab File ID: BB017023.D DFTPP Injection Date: 7/15/2004

Instrument ID: BNAB DFTPP Injection Time: 14:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.1
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	50.6
70	Less than 2.0% of mass 69	0.1 (0.1) 1
127	40.0 - 60.0% of mass 198	47.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	15.5
365	Greater than 1% of mass 198	1.0
441	Present, but less than mass 443	3.0
442	Greater than 40% of mass 198	44.6
443	17.0 - 23.0% of mass 442	8.6 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	80 ng BNA CCC	BB017024.D	7/15/2004	15:12
02	SBLK01	PB16271B	BB017029.D	7/15/2004	18:39
03	SLCS01	PB16271BS	BB017030.D	7/15/2004	19:20
04	MW-1	S3529-01	BB017031.D	7/15/2004	20:01
05	MW-3DUP	S3529-08	BB017032.D	7/15/2004	20:42
06	MW-6	S3529-02	BB017033.D	7/15/2004	21:24
07	MW-5	S3529-06	BB017034.D	7/15/2004	22:05
08	MW-4	S3529-05	BB017035.D	7/15/2004	22:47
09	MW-3	S3529-04	BB017036.D	7/15/2004	23:28

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3529 SAS No.: S3529 SDG NO.: S3529

Lab File ID: BB017082.D DFTPP Injection Date: 7/19/2004

Instrument ID: BNAB DFTPP Injection Time: 12:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.1
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	50.5
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	40.0 - 60.0% of mass 198	49.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 30.0% of mass 198	16.2
365	Greater than 1% of mass 198	1.2
441	Present, but less than mass 443	8.5
442	Greater than 40% of mass 198	50.9
443	17.0 - 23.0% of mass 442	9.3 (18.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	80 ng BNA CCC	BB017083.D	7/19/2004	13:36
02	MW-2	S3529-03	BB017087.D	7/19/2004	16:04

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3529 SAS No.: S3529 SDG NO.: S3529

EPA Sample No.: SSTD080 Date Analyzed: 7/15/2004

Lab File ID: BB017024.D Time Analyzed: 15:12

Instrument ID: BNAB GC Column: RTX-5 SILMS ID: .032 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	452170	6.53	1705296	8.84	888999	12.33
	UPPER LIMIT	904340	7.03	3410592	9.34	1777998	12.83
	LOWER LIMIT	226085	6.03	852648	8.34	444500	11.83
	EPA SAMPLE NO.						
01	SBLK01	433426	6.53	1729416	8.83	866826	12.31
02	SLCS01	425694	6.54	1628637	8.84	821564	12.33
03	MW-1	429684	6.52	1623489	8.83	819501	12.31
04	MW-3DUP	426512	6.52	1711061	8.83	847322	12.31
05	MW-6	426781	6.52	1670398	8.83	830525	12.31
06	MW-5	422217	6.52	1595829	8.83	830608	12.31
07	MW-4	418590	6.52	1613450	8.83	805076	12.31
08	MW-3	430782	6.52	1712630	8.82	841466	12.30

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3529 SAS No.: S3529 SDG No.: S3529

EPA Sample No.: SSTD080 Date Analyzed: 7/15/2004

Lab File ID: BB017024.D Time Analyzed: 15:12

Instrument ID: BNAB GC Column: RTX-5 SILMS ID: 032 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1393102	15.32	998082	20.71	808462	24.08
	UPPER LIMIT	2786204	15.82	1996164	21.21	1616924	24.58
	LOWER LIMIT	696551	14.82	499041	20.21	404231	23.58
	EPA SAMPLE NO.		✓		✓		✓
01	SBLK01	1304194	15.30	989940	20.68	828421	24.05
02	SLCS01	1288420	15.31	917895	20.71	810635	24.09
03	MW-1	1240586	15.30	940291	20.68	802853	24.05
04	MW-3DUP	1232393	15.30	918637	20.68	784047	24.05
05	MW-6	1234791	15.30	907514	20.68	786777	24.04
06	MW-5	1189297	15.30	904022	20.68	791994	24.04
07	MW-4	1164945	15.30	891432	20.68	770175	24.04
08	MW-3	1232600	15.30	930073	20.68	790767	24.04

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3529 SAS No.: S3529 SDG NO.: S3529

EPA Sample No.: SSTD080 Date Analyzed: 7/19/2004

Lab File ID: BB017083.D Time Analyzed: 13:36

Instrument ID: BNAB GC Column: RTX-5 SILMS ID: 032 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD		293120	6.44	1073891	8.75	538353	12.23
UPPER LIMIT		586240	6.94	2147782	9.25	1076706	12.73
LOWER LIMIT		146560	5.94	536946	8.25	269177	11.73
EPA SAMPLE NO.							
09	MW-2	318661	6.43	1221543	8.74	644508	12.21

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHAZ02

Lab Code: CHEM Case No.: S3529 SAS No.: S3529 SDG No.: S3529

EPA Sample No.: SSTD080 Date Analyzed: 7/19/2004

Lab File ID: BB017083.D Time Analyzed: 13:36

Instrument ID: BNAB Gc Column: RTX-5 SILMS ID: 032 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	846165	15.22	595515	20.60	446551	23.91
UPPER LIMIT	1692330	15.72	1191030	21.10	893102	24.41
LOWER LIMIT	423083	14.72	297758	20.10	223276	23.41
EPA SAMPLE NO.		✓		✓		✓
09 MW-2	924377	15.20	670151	20.57	530777	23.87

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

DATA USABILITY SUMMARY REPORT

for

THE CHAZEN COMPANIES

20 Gurley Avenue

Troy, NY 12182

FORMER STILLWATER BOILER HOUSE
ID#B-001975-5
SDG:S3529
Sampled 7/8/04

AQUEOUS SAMPLES for PCB

MW-3	(S3529-04)
MW-4	(S3529-05)
MW-3DUP	(S3529-08)

DATA ASSESSMENT

A PCB data package containing analytical results for three soil samples was received from The Chazen Companies on 21Sep04. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Stillwater Boiler House site (ID#B-00197-5), were identified by Chain of Custody documents and traceable through the work of CHEMTECH, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8082, addressed Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 06/2000, and the cited method. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-24, Rev 1, June 1999, Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev 2, Dec 1996) was used as a technical reference.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible, completely usable, and without qualifications in its present form. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 10/18/04

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved, or are not analyzed within established holding times, may no longer be considered representative. Holding times are calculated from the time of sample receipt (VTSR). Samples must remain chilled to 4°C from the time of collection. Extractions must begin within 5 days of receipt. Analyses must be completed within 40 days of extraction. Each sample delivery group, containing up to 20 samples, should include a field duplicate, a matrix spike, matrix spike duplicate, and a rinsate blank.

This sample delivery group contained two groundwater samples and a field duplicate. The samples were collected from the Former Stillwater Boiler House site 08Jul04. They were shipped to the laboratory, via FedEx on the day of collection. They were received, intact, on 10Jul04. The laboratory record does not indicate that this group of samples was properly chilled at the time of receipt. This area of documentation should be improved. The entire group of samples was extracted on 14Jul04. Analyses were completed on 01Aug04. Program holding time limitations were satisfied.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank. Any sample concentration less than 5 times the level determined in a blank must be qualified.

One method blank was processed with this group of samples. This blank demonstrated acceptable chromatography and was free of targeted analyte contamination.

CALIBRATION

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, Quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration standards verify instrument stability.

The initial instrument calibration was performed 27Jul04. Standards of 50, 250, 500, 750 and 1000 µg/l were included for five congeners each of AR1016 and AR1260. A single mid-range standard was run for the remaining Aroclors. Although every congener curve did not demonstrate an acceptable degree of linearity, the calibration did demonstrate that PCB would be detected if present in samples. Because PC was not present in samples, data has been left unqualified.

Calibration verifications bracketed the analysis of program samples. Both standards of AR1016 and AR1260 demonstrated an acceptable level of instrument stability.

SURROGATES

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared. The tetrachloro-m-xylene and decachlorobipheyl additions to each program sample produced acceptable recoveries, between 58% and 122%. Every recovery was well within the ASP range of acceptance, 30%-150%.

MATRIX SPIKES / MATRIX SPIKE DUPLICATES / MATRIX SPIKED BLANKS

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

A spiked sample was not analyzed with this group of samples. This omission represents a serious breach of AS protocol. A spiked program sample is required in every delivery group.

A spiked blank (LCS) was extracted and analyzed with this group of samples. This LCS produced acceptable recoveries of AR1016 and AR1260 (85%-75%). I is noted that this performance provides no indication of matrix effects that might bias the analysis of program samples.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Field split duplicates of MW-3 were included in this delivery group. PCB was not detected in either of these samples.

SUMMARY OF QUALIFIED DATA

Former Stillwater Boiler House site

Sampled 08Jul04

MW-3 (S3529-04)
MW-4 (S3529-05)
MW-3DUP (S3529-08)

PCB

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-04 Client ID: MW-3

Date Collected:	7/8/2004	Date Received:	7/10/2004
Date Analyzed:	8/1/2004	Matrix:	WATER
Date Extracted:	7/14/2004	File ID:	2PS0525.D
Dilution:	1	Instrument ID:	ECD2
Analytical Method:	8082	Analytical Run ID:	2PS072704
% Moisture:	100.0	Associated Blank:	PB16272B
Sample Wt/Vol:	950	Extract Vol:	10000
Injection Vol:	1		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
AROCLOR 1016	12674-11-2	< 0.130	U	0.53	0.130	ug/L
AROCLOR 1221	11104-28-2	< 0.050	U	0.53	0.050	ug/L
AROCLOR 1232	11141-16-5	< 0.050	U	0.53	0.050	ug/L
AROCLOR 1242	53469-21-9	< 0.140	U	0.53	0.140	ug/L
AROCLOR 1248	12672-29-6	< 0.060	U	0.53	0.060	ug/L
AROCLOR 1254	11097-69-1	< 0.030	U	0.53	0.030	ug/L
AROCLOR 1260	11096-82-5	< 0.0630	U	0.53	0.0630	ug/L
SURROGATES						
Tetrachloro-m-xylene	877-09-8	21.3	106 %	40 - 135		SPK: 20
Decachlorobiphenyl	2051-24-3	15.7	78 %	42 - 133		SPK: 20

PCB

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-05 Client ID: MW-4

Date Collected:	7/8/2004	Date Received:	7/10/2004
Date Analyzed:	8/1/2004	Matrix:	WATER
Date Extracted:	7/14/2004	File ID:	2PS0526.D
Dilution:	1	Instrument ID:	ECD2
Analytical Method:	8082	Analytical Run ID:	2PS072704
% Moisture:	100.0	Associated Blank:	PB16272B
Sample Wt/Vol:	960	Extract Vol:	10000
Injection Vol:	1		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
AROCLOR 1016	12674-11-2	< 0.130	U	0.52	0.130	ug/L
AROCLOR 1221	11104-28-2	< 0.050	U	0.52	0.050	ug/L
AROCLOR 1232	11141-16-5	< 0.050	U	0.52	0.050	ug/L
AROCLOR 1242	53469-21-9	< 0.140	U	0.52	0.140	ug/L
AROCLOR 1248	12672-29-6	< 0.060	U	0.52	0.060	ug/L
AROCLOR 1254	11097-69-1	< 0.030	U	0.52	0.030	ug/L
AROCLOR 1260	11096-82-5	< 0.0620	U	0.52	0.0620	ug/L
SURROGATES						
Tetrachloro-m-xylene	877-09-8	14.87	74 %	40 - 135		SPK: 20
Decachlorobiphenyl	2051-24-3	11.57	58 %	42 - 133		SPK: 20

PCB

SDG No.: S3529

Client: Chazen Companies

Sample ID: S3529-08 Client ID: MW-3DUP

Date Collected:	7/8/2004	Date Received:	7/10/2004
Date Analyzed:	8/1/2004	Matrix:	WATER
Date Extracted:	7/14/2004	File ID:	2PS0527.D
Dilution:	1	Instrument ID:	ECD2
Analytical Method:	8082	Analytical Run ID:	2PS072704
% Moisture:	100.0	Associated Blank:	PB16272B
Sample Wt/Vol:	960	Extract Vol:	10000
Injection Vol:	1		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
AROCLOR 1016	12674-11-2	< 0.130	U	0.52	0.130	ug/L
AROCLOR 1221	11104-28-2	< 0.050	U	0.52	0.050	ug/L
AROCLOR 1232	11141-16-5	< 0.050	U	0.52	0.050	ug/L
AROCLOR 1242	53469-21-9	< 0.140	U	0.52	0.140	ug/L
AROCLOR 1248	12672-29-6	< 0.060	U	0.52	0.060	ug/L
AROCLOR 1254	11097-69-1	< 0.030	U	0.52	0.030	ug/L
AROCLOR 1260	11096-82-5	< 0.0620	U	0.52	0.0620	ug/L
SURROGATES						
Tetrachloro-m-xylene	877-09-8	15.31	77 %	40 - 135		SPK: 20
Decachlorobiphenyl	2051-24-3	12.5	62 %	42 - 133		SPK: 20

Surrogate Summary
SW-846

SDG No.: S3529
Client: Chazen Companies

Analytical Method: EPA SW-846 8082

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
PB16272BS	PB16272BS	Tetrachloro-m-xylene	20	13	65		40.00	135.00
		Decachlorobiphenyl	20	24.33	122		42.00	133.00
S3529-04	MW-3	Tetrachloro-m-xylene	20	21.3	106		40.00	135.00
		Decachlorobiphenyl	20	15.7	78		42.00	133.00
S3529-05	MW-4	Tetrachloro-m-xylene	20	14.87	74		40.00	135.00
		Decachlorobiphenyl	20	11.57	58		42.00	133.00
S3529-08	MW-3DUP	Tetrachloro-m-xylene	20	15.31	77		40.00	135.00
		Decachlorobiphenyl	20	12.5	62		42.00	133.00
PB16272B	PB16272B	Tetrachloro-m-xylene	20	13.34	67		40.00	135.00
		Decachlorobiphenyl	20	15.93	80		42.00	133.00

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: S3529
Client: Chazen Companies

Analytical Method: EPA SW-846 8082

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	RPD
PB16272BS	AROCLOR 1016	2.000	1.7	85			70	130	
	AROCLOR 1260	2.000	1.5	75			70	130	

4C

PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB16272B

Lab Name: Chemtech Contract: Chazen Companies

Lab Code: CTECH Case No.: S3529 SAS No.: S3529 SDG No.: S3529

Lab Sample ID: PB16272B Lab File ID: 2PS0555.D

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 7/14/2004

Date Analyzed (1): 8/2/2004 Date Analyzed (2): 8/2/2004

Time Analyzed (1): 06:10 Time Analyzed (2): 06:10

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): RTX-5 ID: 0.53 (mm) GC Column (2): RTX-1701 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB16272BS	PB16272BS	2PS0524.D	8/1/2004	8/1/2004
MW-3	S3529-04	2PS0525.D	8/1/2004	8/1/2004
MW-4	S3529-05	2PS0526.D	8/1/2004	8/1/2004
MW-3DUP	S3529-08	2PS0527.D	8/1/2004	8/1/2004

COMMENTS:

DATAVAL, INC.
Environmental Data Validation

JAMES B. BALDWIN, JR.
Phone/Fax (607) 642-5460

520 Hooper Road, PMB 283
Endwell, NY 13760

Data Usability Summary Report

Former Stillwater Boiler House
ID #B-00197-5

SAMPLED
July 2004

SOIL SAMPLES
SDG S3860

Inorganics (lead)

Prepared for:

THE CHAZEN COMPANIES
20 Gurley Avenue
Troy, New York 12182

Prepared by:

DATAVAL, Inc.
518 Hooper Rd., PMB 283
Endwell, NY 13760

DATA USABILITY SUMMARY REPORT

for

THE CHAZEN COMPANIES

20 Gurley Avenue

Troy, NY 12182

FORMER STILLWATER BOILER HOUSE
ID#B-001975-5
SDG:S3860
Sampled 7/28/04

SOIL SAMPLES for LEAD

SS-11	(S3860-1)
SS-12	(S3860-2)
SS-13	(S3860-3)
SS-14	(S3860-4)
SS-15	(S3860-5)

DATA ASSESSMENT

An inorganics data package containing analytical results for five soil samples was received from The Chazen Companies on 21Sep04. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Stillwater Boiler House site (ID#B-00197-5), were identified by Chain of Custody documents and traceable through the work of CHEMTECH, the laboratory contracted for analysis. Analyses were performed using SW-846 methods 6010. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 06/2000. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOW HW-2, Rev. 11, Jan. 1992, Evaluation of Metals Data for the Contract Laboratory Program) was used as a technical reference.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible, completely usable, and without qualifications in its present form. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 10/18/04

SAMPLE HISTORY

Sample holding times are calculated between the time of laboratory receipt (VTSR) and the time of analysis. Mercury samples must be analyzed within 26 days of receipt; the remaining metals within 180 days. Each sample delivery group, containing up to 20 samples, should include a field duplicate, a laboratory split duplicate, a matrix spiked sample, and a rinsate blank.

This sample delivery group contained five soil samples. The samples were collected from the Former Stillwater Boiler House site on 28Jul04. They were shipped to the laboratory on 29Jul04. The shipment arrived, intact, on 30Jul04. The samples were digested on 02Aug04 and analyzed for lead 04Aug04. Program holding time limitations were satisfied.

CALIBRATIONS

Calibration curves are constructed, using certified materials, to define the linear range of each analytical instrument. Beyond this range, measurements cannot be made with confidence. The calibration curve is immediately tested by analyzing an initial calibration verification standard (ICV). Continuing verifications (CCV) must bracket each group of up to ten samples. ICV and CCV recoveries must meet established criteria.

ICP calibrations were performed with a blank and three standards. Each instrument calibration was immediately verified by the analysis of an ICV standard. Continuing calibration checks were made following each group of 10 samples. Each calibration check that was used to bracket samples from this program satisfied the program acceptance criteria.

CONTRACT REQUIED DETECTION LIMIT STANARDS (CRDL)

To verify instrument linearity near CRDL, an ICP standard at a concentration of twice CRDL (CRI) is analyzed at the beginning and end of each analytical sequence. A standard equaling CRDL (CRA) must be included in each atomic adsorption sequence. CRDL standards must produce a recovery between 80% and 120%.

The CRDL results reported by the laboratory satisfied the program acceptance criteria.

It is noted that the laboratory did not analyze CRDL standards at the end of each analytical sequence. Although the requirements of the cited methods were satisfied, ASP protocol was not. Data has not been qualified due to this discrepancy.

However, this issue should be brought to the laboratory's attention prior to the next sampling event.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Preparation blanks are carried through the digestion process with each group of samples to evaluate general laboratory technique. Calibration blanks are run periodically to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

An initial blank (ICB) was analyzed following the calibration in each analytical sequence. Additional blanks were analyzed after every ten samples (CCB) and at the end of each sequence. Preparation blanks were digested, prior to analysis, with each group of samples. Each laboratory prepared blank that was associated with samples from this program was free of analyte contamination exceeding CRDL.

INTERFERENCE CHECK SAMPLE (ICS)

ICS standards are analyzed at the beginning and end of each ICP analysis sequence to verify background and inter-element correction factors. The recoveries of specified analytes are measured in the presence of interfering concentrations of aluminum, calcium, magnesium and iron.

Interference check standards, ICSA and ICSAB, were included in each ICP analysis sequence. Each interference check standard that was used to bracket samples from this program produced recoveries within the range of acceptance, 80% - 120%.

It is noted that the laboratory did not analyze ICS standards at the end of each analytical sequence. Although the requirements of the cited methods were satisfied, ASP protocol was not. Data has not been qualified due to this discrepancy. However, this issue should be brought to the laboratory's attention prior to the next sampling event.

PREDIGESTION SPIKE

The recovery of spike concentrations added to samples prior to digestion and analysis demonstrates measurement bias caused by sample matrix effects. Predigestion spikes must be recovered within control limits of 75% - 125%.

A sample from an unrelated delivery group was selected for matrix spiking. Lead was added to two portions of this sample. Both additions were recovered successfully.

It should be noted that spike recoveries reported from unrelated samples provide no insight to matrix affects that might bias measurements in program samples. ASP protocol requires that program samples be used for matrix spiking.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Laboratory split duplicates of a sample from an unrelated delivery group were processed with this group of samples. This duplicate pair demonstrated an acceptable level of measurement precision.

Field split duplicates were not included in this delivery group.

LABORATORY CONTROL STANDARD

Laboratory control samples are prepared by adding analytes to clean sand or reagent water. Analyte concentrations are then determined without interferences caused by sample matrix effects.

A solid LCS standard was digested and analyzed with this group of samples. Acceptable recoveries were reported for each targeted analyte.

ICP SERIAL SILUTION SAMPLE

Possible matrix effects are verified by the process of serial dilutions. Samples are diluted 1:5 to reduce matrix contributions that might bias measurements. The original sample result, and the corrected concentration of the diluted sample are compared. Sample data is qualified if the original concentrations are not recovered within 10%. Analytes with initial concentrations below 50 times IDL are not considered.

A sample from an unrelated delivery group was prepared as a serial dilution. The lead concentrations detected in the original sample and it's dilution differed by 10%. The program

acceptance criteria was satisfied. It is noted that this performance may not reflect interferences associated with the matrix of samples from this program.

SUMMARY OF QUALIFIED DATA

Former Stillwater Boiler House site

Sampled 6/28/04 - 6/29/04

SS-11 (S3860-1)
SS-12 (S3860-2)
SS-13 (S3860-3)
SS-14 (S3860-4)
SS-15 (S3860-5)

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Conti Enterprises**	**Date Collected:**	**7/28/2004**
Project:		**Date Received:**	**7/30/2004**
Client Sample ID:	**SS-11**	**SDG No.:**	**S3886**
Lab Sample ID:	**S3860-01**	**Matrix:**	**SOIL**
		% Solids:	**79.80**

CAS No.	Analyte	Conc.	Units	Qualifier	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	156	mg/Kg		0.129	1	8/2/2004	8/3/2004	EPA SW-846 6010

Comments:

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Report of Analysis

Client:	**Conti Enterprises**	**Date Collected:**	**7/28/2004**
Project:		**Date Received:**	**7/30/2004**
Client Sample ID:	**SS-12**	**SDG No.:**	**S3886**
Lab Sample ID:	**S3860-02**	**Matrix:**	**SOIL**
		% Solids:	**78.00**

CAS No.	Analyte	Conc.	Units	Qualifier	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	106	mg/Kg		0.132	1	8/2/2004	8/3/2004	EPA SW-846 6010

Comments:

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Report of Analysis

Client:	**Conti Enterprises**	**Date Collected:**	**7/28/2004**
Project:		**Date Received:**	**7/30/2004**
Client Sample ID:	**SS-13**	**SDG No.:**	**S3886**
Lab Sample ID:	**S3860-03**	**Matrix:**	**SOIL**
		% Solids:	**73.70**

CAS No.	Analyte	Conc.	Units	Qualifier	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	3290	mg/Kg		0.140	1	8/2/2004	8/3/2004	EPA SW-846 6010

Comments: _____

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Report of Analysis

Client:	**Conti Enterprises**	**Date Collected:**	**7/28/2004**
Project:		**Date Received:**	**7/30/2004**
Client Sample ID:	**SS-14**	**SDG No.:**	**S3886**
Lab Sample ID:	**S3860-04**	**Matrix:**	**SOIL**
		% Solids:	**70.80**

CAS No.	Analyte	Conc.	Units	Qualifier	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	984	mg/Kg		0.144	1	8/2/2004	8/3/2004	EPA SW-846 6010

Comments: _____

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Report of Analysis

Client:	**Conti Enterprises**	**Date Collected:**	**7/28/2004**
Project:		**Date Received:**	**7/30/2004**
Client Sample ID:	**SS-15**	**SDG No.:**	**S3886**
Lab Sample ID:	**S3860-05**	**Matrix:**	**SOIL**
		% Solids:	**75.70**

CAS No.	Analyte	Conc.	Units	Qualifier	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	4610	mg/Kg		0.136	1	8/2/2004	8/3/2004	EPA SW-846 6010

Comments:

Metals
- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Conti Enterprises **SDG No.:** S3886

Contract: Conti Enterprises **Lab Code:** CHEMED **Case No.:** S3860 **SAS No.:** S3860

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Lead	1036.81	996.0	104.1	90.0 - 110.0	P	8/3/2004	11:58	P108034
CCV01	Lead	5051.10	5000.0	101.0	90.0 - 110.0	P	8/3/2004	12:32	P108034
CCV02	Lead	5300.80	5000.0	106.0	90.0 - 110.0	P	8/3/2004	13:13	P108034
CCV03	Lead	5244.46	5000.0	104.9	90.0 - 110.0	P	8/3/2004	13:58	P108034
CCV04	Lead	5093.33	5000.0	101.9	90.0 - 110.0	P	8/3/2004	14:25	P108034
CCV05	Lead	5115.72	5000.0	102.3	90.0 - 110.0	P	8/3/2004	14:48	P108034
CCV06	Lead	5092.68	5000.0	101.9	90.0 - 110.0	P	8/3/2004	15:14	P108034
CCV07	Lead	5046.63	5000.0	100.9	90.0 - 110.0	P	8/3/2004	15:40	P108034
CCV08	Lead	5116.31	5000.0	102.3	90.0 - 110.0	P	8/3/2004	16:08	P108034
CCV09	Lead	5208.84	5000.0	104.2	90.0 - 110.0	P	8/3/2004	16:33	P108034
CCV10	Lead	4989.81	5000.0	99.8	90.0 - 110.0	P	8/3/2004	17:03	P108034
CCV11	Lead	4874.83	5000.0	97.5	90.0 - 110.0	P	8/3/2004	17:26	P108034
CCV12	Lead	4813.98	5000.0	96.3	90.0 - 110.0	P	8/3/2004	17:53	P108034
CCV13	Lead	4719.90	5000.0	94.4	90.0 - 110.0	P	8/3/2004	18:18	P108034

Metals
- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Conti Enterprises **SDG No.:** S3886

Contract: Conti Enterprises **Lab Code:** CHEMED **Case No.:** S3860 **SAS No.:** S3860

Initial Calibration Source: EPA-ICV

Continuing Calibration Source: EPA-LV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV14	Lead	5122.11	5000.0	102.4 ✓	90.0 - 110.0	P	8/3/2004	18:47	P108034
CCV15	Lead	5103.76	5000.0	102.1	90.0 - 110.0	P	8/3/2004	19:12	P108034
CCV16	Lead	5173.40	5000.0	103.5	90.0 - 110.0	P	8/3/2004	19:36	P108034
CCV17	Lead	5131.48	5000.0	102.6	90.0 - 110.0	P	8/3/2004	19:44	P108034

Metals
- 2b -
CRDL STANDARD FOR AA & ICP

Client: Conti Enterprises **SDG No.:** S3886

Contract: Conti Enterprises **Lab Code:** CHEMED **Case No.:** S3860 **SAS No.:** S3860

AA CRDL Standard Source:

ICP CRDL Standard Source: INOR-VEN

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01									
	Lead	4.84	6.0	80.7 ✓	75 - 125	P	8/3/2004	12:13	P108034

Metals
- 3a -
INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Conti Enterprises **SDG No.:** S3886

Contract: Conti Enterprises **Lab Code:** CHEMED **Case No.:** S3860 **SAS No.:** S3860

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
ICB01	Lead	1.8	+/-5.0	U	1.8	5.0	P	8/3/2004	12:03	P108034
CCB01	Lead	-1.9	+/-5.0	J	1.8	5.0	P	8/3/2004	12:35	P108034
CCB02	Lead	1.8	+/-5.0	U	1.8	5.0	P	8/3/2004	13:17	P108034
CCB03	Lead	1.8	+/-5.0	U	1.8	5.0	P	8/3/2004	14:00	P108034
CCB04	Lead	1.8	+/-5.0	U	1.8	5.0	P	8/3/2004	14:27	P108034
CCB05	Lead	-2.7	+/-5.0	J	1.8	5.0	P	8/3/2004	14:52	P108034
CCB06	Lead	1.8	+/-5.0	U	1.8	5.0	P	8/3/2004	15:16	P108034
CCB07	Lead	2.8	+/-5.0	J	1.8	5.0	P	8/3/2004	15:42	P108034
CCB08	Lead	-1.8	+/-5.0	J	1.8	5.0	P	8/3/2004	16:11	P108034
CCB09	Lead	1.8	+/-5.0	U	1.8	5.0	P	8/3/2004	16:36	P108034
CCB10	Lead	1.8	+/-5.0	U	1.8	5.0	P	8/3/2004	17:05	P108034
CCB11	Lead	1.8	+/-5.0	U	1.8	5.0	P	8/3/2004	17:28	P108034
CCB12	Lead	1.8	+/-5.0	U	1.8	5.0	P	8/3/2004	17:55	P108034
CCB13	Lead	-2.2	+/-5.0	J	1.8	5.0	P	8/3/2004	18:24	P108034

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Conti Enterprises **SDG No.:** S3886

Contract: Conti Enterprises **Lab Code:** CHEMED **Case No.:** S3860 **SAS No.:** S3860

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB14	Lead	1.8	+/-5.0	U	1.8	5.0	P	8/3/2004	18:49	P108034
CCB15	Lead	1.8	+/-5.0	U	1.8	5.0	P	8/3/2004	19:14	P108034
CCB16	Lead	1.8	+/-5.0	U	1.8	5.0	P	8/3/2004	19:38	P108034
CCB17	Lead	-2.1	+/-5.0	J	1.8	5.0	P	8/3/2004	19:47	P108034

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Conti Enterprises **SDG No.:** S3886

Instrument: P1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	MDL mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB00112BL		**SOIL**		**Batch Number:**	**PB00112**			**Prep Date:**	**8/2/2004**	
	Lead	0.038	<0.500	U	0.103	0.500	P	8/3/2004	17:36	P108034

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Conti Enterprises **SDG No.:** S3886

Contract: Conti Enterprises **Lab Code:** CHEMED **Case No.:** S3860 **SAS No.:** S3860

ICS Source: EPA **Instrument ID:** P1

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-A01								
	Lead	-5.3			0 - 0	8/3/2004	12:20	P108034
ICS-AB01								
	Lead	40.2	49	82.0 ✓	80 - 120	8/3/2004	12:26	P108034

Metals
- 5a -
MATRIX SPIKE SUMMARY

Client: Conti Enterprises **Level:** LOW **SDG No.:** S3886

Contract: Conti Enterprises **Lab Code:** CHEMED **Case No.:** S3860 **SAS No.:** S3860

Matrix: SOIL **Sample ID:** S3886-02 **Client ID:** NJPACTOPORTAL(3)S

Percent Solids for Sample: 94.00 **Spiked ID:** S3886-02S **Percent Solids for Spike Sample:** 94.00

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	mg/Kg	80 - 120	121.6830		9.7016		106.38	105.3	✓	P

Metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

Client: Conti Enterprises **Level:** LOW **SDG No.:** S3886

Contract: Conti Enterprises **Lab Code:** CHEMED **Case No.:** S3860 **SAS No.:** S3860

Matrix: SOIL **Sample ID:** S3886-02 **Client ID:** NJPACTOPORTAL(3)SD

Percent Solids for Sample: 94.00 **Spiked ID:** S3886-02SD **Percent Solids for Spike Sample:** 94.00

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	mg/Kg	80 - 120	120.3910		9.7016		106.38	104.1	✓	P

Metals
- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Conti Enterprises **Level:** LOW **SDG No.:** S3886

Contract: Conti Enterprises **Lab Code:** CHEMED **Case No.:** S3860 **SAS No.:** S3860

Matrix: SOIL **Sample ID:** S3886-02 **Client ID:** NJPACTOPORTAL(3)D

Percent Solids for Sample: 94.00 **Duplicate ID:** S3886-02D **Percent Solids for Duplicate:** 94.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Lead	mg/Kg		9.7016		9.6973		0.0		P

Metals
- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Conti Enterprises **Level:** LOW **SDG No.:** S3886

Contract: Conti Enterprises **Lab Code:** CHEMED **Case No.:** S3860 **SAS No.:** S3860

Matrix: SOIL **Sample ID:** S3886-02S **Client ID:** NJPACTOPORTAL(3)SD

Percent Solids for Sample: 94.00 **Duplicate ID:** S3886-02SD **Percent Solids for Duplicate:** 94.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Lead	mg/Kg		121.6830		120.3910		1.1		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Conti Enterprises **SDG No.:** S3886

Contract: Conti Enterprises **Lab Code:** CHEMED **Case No.:** S3860 **SAS No.:** S3860

Aqueous LCS Source: **Solid LCS Source:** EPA-ICV

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB00112BS								
	Lead	mg/Kg	100.0	97.2		97.2	80.0 - 120.0	P

Metals

- 9 -

SERIAL DILUTION SAMPLE SUMMARY

Client: Conti Enterprises **SDG No.:** S3886

Contract: Conti Enterprises **Lab Code:** CHEMED **Case No.:** S3860 **SAS No.:** S3860

Matrix: WATER **Level:** LOW **Client ID:** NJPACTOPORTAL(3)L

Sample ID: S3886-02 **Serial Dilution ID:** S3886-02L

Analyte	Initial Result ug/L	C	Serial Result ug/L	C	% Difference	Qual	Acceptance Limits	M
Lead	91.20		82.12		10.0		10.00 %	P

DATAVAL, INC.
Environmental Data Validation

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