

### WEST WINDSOR-PLAINSBORO Regional School District

505 Village Road West, West Windsor, NJ 08550 609.716.5000 www.ww-p.org

### March 15, 2016

### **Dear WW-P Community:**

I have been in touch with West Windsor Township and Plainsboro Township officials as well as representatives from the New Jersey Department of Education regarding the lead crisis in Flint, Michigan and now in Newark, New Jersey.

The water supply leading into school buildings was tested by New Jersey American Water. If you want more information from New Jersey American Water, you can click on this link: <a href="http://www.amwater.com/ccr/raritan.pdf">http://www.amwater.com/ccr/raritan.pdf</a>. Based upon this report from New Jersey American Water, we believe that the water entering school buildings has been safe.

However, no testing of drinking water has been done on water after passing through the pipes or water fountains in our district. As a precaution, the WW-P Department of Buildings and Grounds is in the process of contracting with an environmental company to complete water testing at all ten schools.

Once testing has been completed, WW-P will share the results with staff and the community.

Sincerely,

David Aderhold, EdD, Superintendent of Schools



### WEST WINDSOR-PLAINSBORO Regional School District

505 Village Road West, West Windsor, NJ 08550 609.716.5000 www.ww-p.org

### **April 18, 2016**

### **Dear WW-P Community:**

During spring recess, PARS Environmental, Inc., an environmental consultant company, tested the water in all ten schools. We have received unofficial sample results for nine of the ten schools; we are awaiting results for High School North.

Late Friday, we received a communication from PARS Environmental, Inc. with preliminary findings. A written report has not been issued at this time as all results have not been received from the laboratory that tested the water.

It is important to put these results in context. We tested 130 locations: 115 results have been received (missing testing samples from HSN). Of the 115, 110 samples have received acceptable results (with levels of lead under 15 parts per billion (ppb)), and 5 of the tested water fountain/faucet locations were identified with a lead concentration above 15 ppb. As instructed by PARS Environmental, Inc., WW-P immediately shut off the water to the identified drinking fountains/faucets pending results of a second sample and official written report.

The following schools did not have lead concentrations above 15 ppb:

- o Community Middle School
- o Wicoff Elementary School
- Millstone River School
- o Town Center Elementary School

The following locations had lead concentrations above 15 ppb:

- o Village School, Room 206: Classroom Faucet (22 ppb)
- o Dutch Neck Elementary School: Faculty Lounge Bubbler (18 ppb)
- o Maurice Hawk Elementary School, Room 165: Bubbler (16 ppb)
- o Grover Middle School, Room A233: Classroom Faucet (25 ppb)

o High School South, Hallway Commons 1: Near Library Water Cooler (58 ppb)

The following location results have not been received:

o High School North

It also is important to understand the information sent to us from the testing company. PARS Environmental, Inc. stated, "Due to the relatively low lead concentrations of the exceedances and the low/non-detect results at all other locations within these schools, our initial thought is these locations were not flushed or flushed properly prior to sampling. However, as recommended by the USEPA, these locations should be taken offline. Further, it is recommended that we re-sample each location for a first and second draw sample. Once the resampling results have been received, we will make further recommendations, if warranted."

We have turned off the five faucets/fountains that have been identified. We are working to retest within the next week.

At this time, we have not received a final written report. Once we have received this information, we will share it with everyone, and will post the information on the web site.

The health and safety of our students and staff is of our greatest priority. We will work with local officials and the environmental consultant to ensure that appropriate remedial actions are taken. If you would like to read more about this issue, the Centers for Disease Control has information on its web site.

Sincerely,

David Aderhold, EdD, Superintendent of Schools



### WEST WINDSOR-PLAINSBORO Regional School District

505 Village Road West, West Windsor, NJ 08550 609.716.5000 www.ww-p.org

**April 27, 2016** 

### **Dear WW-P Community:**

During spring recess, PARS Environmental, Inc., an environmental consultant company, tested the water in all ten schools. This e-mail is a follow up to the earlier communications about water testing, and will provide additional information.

The main source of water coming into WW-P schools has been tested by New Jersey American Water and shown to have no evidence of lead in the water. [If you want more information from New Jersey American Water, click on this link: http://www.amwater.com/ccr/raritan.pdf.]

During spring recess, PARS Environmental, Inc. tested water in all ten schools. PARS Environmental, Inc. took 130 samples; 125 samples were found to be within the acceptable standard. [Federal standards, as determined by the Environmental Protection Agency, state that acceptable levels of lead in water can be measured at not above 15 ppb.]

Initial testing showed five schools did not have lead concentrations above 15 ppb; we now have the reports for these five schools: Town Center Elementary School, Wicoff Elementary School, Millstone River School, Community Middle School, and High School North. The reports can be found at this link: <a href="http://www.ww-p.org/about\_us/safe\_schools/water\_testing">http://www.ww-p.org/about\_us/safe\_schools/water\_testing</a>.

There were five schools with single locations reporting a lead concentration above 15 ppb: Dutch Neck Elementary School, Maurice Hawk Elementary School, Village School, Grover Middle School, and High School South. Following the protocols set forth by the environmental consultant, all identified areas were retested. All areas that were identified for re-testing were turned off during the retesting process.

The re-sampling results from Dutch Neck Elementary School, Village School, Grover Middle School, and High School South show lead concentrations not above 15 ppb; the official reports from these four schools will be finalized shortly and we will post them on the district web site. [The four areas in these four schools that were identified for re-testing were turned off during the retesting process; water usage now has been restored to these sites.]

The resampling at one location at Maurice Hawk Elementary School remains unsatisfactory (above 15 ppb]. This faucet and bubbler in Room 165 has been taken offline, as we work with the environmental consultant on a course of action. Also, when we receive the report for Maurice Hawk Elementary School, which we expect soon, we will post it on the district web site.

As I stated in my original communication to you, the health and safety of our students and staff is our greatest priority.
Sincerely, David Aderhold, Superintendent of Schools

### **Dear Hawk Parents and Staff:**

We have updated information about water testing at Maurice Hawk Elementary School: Early this morning, we received results from re-tested water samples from Maurice Hawk Elementary School.

Let me review where we are at this point in the testing process: PARS Environmental, Inc., an environmental consultant company, completed water testing during spring break. At that time, PARS Environmental, Inc. took 15 water samples; 1 sample did not meet federal standards. [Federal standards, as determined by the Environmental Protection Agency, state that acceptable levels of lead in water can be measured at not above 15 ppb.]

For a second round of testing, PARS Environmental, Inc. re-tested the one area (Room 165). The results from this testing did not meet federal standards.

For a third round of testing, PARS Environmental, Inc. tested 14 samples: Nine samples met federal standards; five samples did not. The samples that did not meet federal standards were from the faucets and bubblers in Rooms 170, 164, 165, 166, and 167. The water in these locations have been turned off.

We are working with PARS Environmental, Inc. and the district Buildings and Grounds Department to find a solution.

As I stated in my original communication to you, the health and safety of our students and staff is our greatest priority.

Sincerely,
David Aderhold, Superintendent of Schools

#### January 22, 2017

The New Jersey Department of Education has required all public school districts to test water in all schools before the end of the 2016-2017 school year. To comply with this directive, we have started testing water in our school buildings.

During winter recess, PARS Environmental, Inc., an environmental consulting company, tested the water in High School North and High School South; and on January 16, 2017, water at Grover Middle School and Community Middle School was tested.

At High School North, PARS Environmental, Inc. took 72 samples and at High School South, PARS Environmental took 90 samples; all drinkable water was sampled. Preliminary results indicated that 89 of 90 water sources at High School South and 67 of 72 water sources at High School North have tested within the acceptable standard. [Federal standards, as determined by the Environmental Protection Agency, state that acceptable levels of lead in water can be measured at not above 15 ppb.] It is important to note that <u>all</u> water fountains were found to be within the acceptable levels. The six locations that were above the acceptable standard have been turned off and will be retested (as per protocol). The retesting process will take place this week, following the guidance and advice of PARS Environmental. Also, we have notified both the West Windsor and Plainsboro Health Departments. Once results become available, we will provide a further update.

At this time, we have not received results from the testing of water in the middle schools; once results become available, we will share accordingly. WW-P plans to test the other six schools in the next few months.

As always, the health and safety of our students and staff is our greatest priority.

Sincerely,
David Aderhold, EdD, Superintendent of Schools

#### January 23, 2017

I am sending this information as a follow up to yesterday's water testing message.

Today, we received the results from the water testing at Community Middle School and Grover Middle School. At CMS, 57 samples were taken and at GMS, 39 samples were taken. All samples at GMS are within the acceptable standard. Three samples at CMS were above the acceptable standard, and these locations have been turned off and will be retested according to protocol. [Federal standards, as determined by the Environmental Protection Agency, state that

acceptable levels of lead in water can be measured at not above 15 ppb.] Once we have the results from the retesting, we will share them.

As a reminder, WW-P plans to test the other six schools in the next few months.

Sincerely,
David Aderhold, EdD, Superintendent of Schools

#### January 25, 2017

We have received the results from the retesting of water at High School North and High School South. As I wrote a few days ago, at High School North, PARS Environmental, Inc. took 72 samples and at High School South, PARS Environmental took 90 samples; all drinkable water was sampled. Preliminary results indicated that 89 of 90 water sources at High School South and 67 of 72 water sources at High School North tested within the acceptable standard.

The six locations that were above the acceptable standard were turned off and have been retested (as per protocol). All retested samples from High School South were within the acceptable standard. At High School North, four of the five retested samples were within the acceptable standard. The sample from the station in the HSN Main Office will remain offline; we will change the fixture and retest, as protocol requires.

We will continue to update all WW-P as results become available.

Sincerely,
David Aderhold, EdD, Superintendent of Schools

#### January 27, 2017

We have received the results from the retesting of water at Community Middle School.

Earlier this week, we received the results from the water testing at Community Middle School and Grover Middle School. At CMS, 57 samples were taken and at GMS, 39 samples were taken. All samples at GMS are within the acceptable standard. Three samples at CMS were above the acceptable standard, and these locations have been turned off and will be retested according to protocol. [Federal standards, as determined by the Environmental Protection Agency, state that acceptable levels of lead in water can be measured at not above 15 ppb.]

The three samples at Community Middle School did not pass the re-tests. Next week, we will be changing the fixtures in two water fountains and in a sink in the culinary classroom. (The water remains turned off.) Once the new fixtures are in place, we will sample the water.

As a reminder, WW-P plans to test the other six schools in the next few months.

Sincerely,
David Aderhold, EdD, Superintendent of Schools



# LEAD IN DRINKING WATER TESTING REPORT

WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD PLAINSBORO, NEW JERSEY 08536

#### PREPARED FOR:

West Windsor-Plainsboro Regional School District 505 Village Road West PO Box 505 West Windsor, New Jersey 08550

### PREPARED BY:

PARS Environmental, Inc. 500 Horizon Drive, Suite 540 Robbinsville, New Jersey 08691

Tel: 609-890-7277 Fax: 609-890-9116

PARS Project No. 565-84

**April 2016** 



LABORATORY CERTIFICATION

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT COMMUNITY MIDDLE SCHOOL APRIL 2016

**PARS** 

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**PARS** 

### **EXECUTIVE SUMMARY**

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Community Middle School (CMS). PARS conducted the lead in drinking water testing on March 30, 2016. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the United States Environmental Protection Agency (USEPA) 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (USEPA 3Ts). PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

### **FINDINGS**

The USEPA National Primary Drinking Water Regulations requires that immediate action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 milligrams per liter (mg/l). Exceedance of the 0.015 mg/l action level was not identified in CMS. A total of 15 water samples were collected and analyzed.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.



**PARS** 

### 1.0 INTRODUCTION

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Community Middle School (CMS). The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the *USEPA 3Ts*. PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

Sampling methodology is described in Section 2.0, the Lead in Drinking Water Findings are discussed in Section 3.0, and the Conclusions and Recommendations are presented in Section 4.0. A list of the sample locations and results are provided in **Table 1**. The Laboratory Analytical Report and Laboratory NELAC Certification are provided in **Appendix A** and **B**, respectively.

This report is intended for the sole use of WWP. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations, is at risk of said user.



**PARS** 

### 2.0 LEAD IN DRINKING WATER SAMPLING

PARS conducted lead in drinking water testing at the CMS on March 30, 2016. The lead in drinking water sampling was conducted by Christa Casciolini and Melissa Konieczny of PARS.

PARS performed lead in drinking water testing at a total of eight (8) drinking water fountains (bubbler and cooler units) and seven (7) faucets in the nurse's office, teacher's room, classroom, and kitchen locations in the CMS.

All samples were collected following the USEPA First Draw sampling protocol. The First Draw sample collection occurred in the morning prior to the facility opening and before any water was drawn in the building, including toilet flushing. The water was unused for six (6) to eight (8) hours prior to collection. Arrangements were made to sample the water outlets prior to the arrival of teachers and students.

The samples were placed in pre-preserved plastic bottles and submitted for laboratory analysis to SGS Accutest for two-week turnaround. SGS Accutest is a New Jersey Department of Environmental Protection (NJDEP) certified laboratory for lead in drinking water (NELAC #CO007). All samples were analyzed using USEPA Method 200.8 for the determination of trace elements in waters and wastes by inductively coupled plasma – mass spectrometry (ICP-MS). Chain-of-custody protocols were followed.



**PARS** 

### 3.0 LEAD IN DRINKING WATER FINDINGS

Based on the laboratory analytical results, lead concentrations exceeding 0.015 mg/l action level were not identified in the 15 water samples collected at CMS.

Lead in drinking water tabulated results for the CMS are provided in **Table 1**. The laboratory analytical report is included in **Appendix A.** The laboratory certification is included in **Appendix B**.



**PARS** 

### 4.0 CONCLUSIONS AND RECOMMENDATIONS

A total of eight (8) drinking water fountains and seven (7) faucets in the nurse's office, teacher's room, classroom, and kitchen locations were tested at the CMS. The USEPA recommends that action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 mg/l. None of the 15 outlets sampled in the CMS exceeded the 0.015 mg/l action level.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.

-000-

PARS appreciates the opportunity to assist West Windsor-Plainsboro Regional School District with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

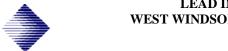
PARS ENVIRONMENTAL, INC.

Christa M. Casciolini **Project Geologist** 

Margaret Halasnik

Principal Industrial Hygienist

Margaret Halasin



**PARS** 

# TABLE 1 DRINKING WATER RESULTS TABLE

#### TABLE 1

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT COMMUNITY MIDDLE SCHOOL

APRIL 2016

All samples are primary (first draw) samples.

All faucets sampled are cold water, unless noted.

EPA Action limit = 0.015 milligrams per liter (mg/l)

School:	Community Mic	ldle School									
Sampling Date:	3/30/2016										
Exceeds EPA Action Limit ( > 0.015 mg/l)											
Hit = result > 0.00050 detection limit											
Accutest Mountain States										15-Apr-16	
Job Number:	D81292										
Account:	PARS Environn										
Project:	WWP Regional	West Windsor-Plainsl	boro, NJ								
Project Number:	Community Mic	ldle School									
Legend	l:										Hit
Client Sample ID:		CMS-01-NUR-DW-P	CMS-01-KIT-KC-P	CMS-01-BL-DW-P	CMS-01-GL-DW-P	CMS-01-215-DW-P	CMS-01-305-KC-P	CMS-01-308_310- DW-P	CMS-01-H713-DW- P	CMS-01-705-CF-P	CMS-02-H814-DW- P
Lab Sample ID:		D81292-1	D81292-2	D81292-3	D81292-4	D81292-5	D81292-6	D81292-7	D81292-8	D81292-9	D81292-10
Date Sampled:		3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis											
Lead	mg/l	0.0045	0.0015	0.0015	0.014	0.001	< 0.00050	0.0022	< 0.00050	0.0023	< 0.00050
					•				•	•	
Client Sample ID:		CMS-02-813-CF-P	CMS-01-317_318- WC-P	CMS-01-323-CF-P	CMS-01-401-KC-P	CMS-01-502-KC-P					
Lab Sample ID:		D81292-11	D81292-12	D81292-13	D81292-14	D81292-15					
Date Sampled:		42459	42459	42459	42459	42459					
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water					
Metals Analysis											
Lead	mg/l	0.01	< 0.00050	0.0011	0.0022	0.0016					
Client Sample ID:											
Client Sample ID Format:	School-Floor-Room-	Outlet-Sample Type									

 Client Sample ID Format:
 School-Floor-Room-Outlet-Sample Type

 Floor:
 Room:
 Outlet:
 Sample Type:

01 = First floor ### = Room number ### BF = Bathroom faucet P = Primary (first draw) sample

02 = Second floor ###.### = Sample between room number ### and room # CF = Classroom faucet F = Flush sample

H### = Hallway by room number ### DW= Drinking water bubbler
BL = Boy's locker room EC = Home economics room,

 BL = Boy's locker room
 EC = Home economics room, cold

 CAF = Cafeteria
 KC = Kitchen faucet, cold

 FR = Faculty room
 LC = Lounge faucet, cold

 GL = Girl's locker room
 NS = Nurse's office sink

 KIT = Kitchen
 WC = Water cooler (chiller unit)

 MGYM = Main gym
 TF or TS = Teacher's faucet or Teacher's sink

MO = Main office

NUR = Nurse's office

TL = Teacher's lounge TP = Teacher's prep room PLR = Pool Locker room

SGYM = Small gym TGL = Team girl's locker room



# APPENDIX A LABORATORY ANALYTICAL REPORT



# **ACCUTEST**Mountain States

04/14/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

### **Technical Report for**

### **PARS Environmental Services**

WWP Regional, West Windsor-Plainsboro, NJ

**CMS** 

SGS Accutest Job Number: D81292

Sampling Date: 03/30/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 ccasciolini@ParsEnviro.com

**ATTN: Crista Casciolini** 

Total number of pages in report: 50

TNI HERODATORI

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman Laboratory Director

Seed a sel

Client Service contact: Cristina Araujo 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY

CO (CO00049), EPA 515.4 Provisional

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.

Test results relate only to samples analyzed.

SGS

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# **Sample Summary**

Job No:

D81292

PARS Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ Project No: CMS

Sample Number	Collected Date	Time B	By	Received	Matri Code		Client Sample ID
D81292-1	03/30/16	08:51 M	ИK	03/31/16	DW	Drinking Water	CMS-01-NUR-DW-P
D81292-2	03/30/16	09:01 M	ΛK	03/31/16	DW	Drinking Water	CMS-01-KIT-KC-P
D81292-3	03/30/16	09:06 M	ИK	03/31/16	DW	Drinking Water	CMS-01-BL-DW-P
D81292-4	03/30/16	09:12 M	ИK	03/31/16	DW	Drinking Water	CMS-01-GL-DW-P
D81292-5	03/30/16	09:28 M	ΛK	03/31/16	DW	Drinking Water	CMS-01-215-DW-P
D81292-6	03/30/16	09:38 M	ИK	03/31/16	DW	Drinking Water	CMS-01-305-KC-P
D81292-7	03/30/16	09:41 M	ИK	03/31/16	DW	Drinking Water	CMS-01-308_310-DW-P
D81292-8	03/30/16	09:47 M	ИK	03/31/16	DW	Drinking Water	CMS-01-H713-DW-P
D81292-9	03/30/16	09:49 M	ИK	03/31/16	DW	Drinking Water	CMS-01-705-CF-P
D81292-10	03/30/16	09:52 M	ИK	03/31/16	DW	Drinking Water	CMS-02-H814-DW-P
D81292-11	03/30/16	09:53 N	ИK	03/31/16	DW	Drinking Water	CMS-02-813-CF-P
D81292-12	03/30/16	10:00 M	ИK	03/31/16	DW	Drinking Water	CMS-01-317_318-WC-P
D81292-13	03/30/16	10:09 M	ИK	03/31/16	DW	Drinking Water	CMS-01-323-CF-P



# Sample Summary (continued)

PARS Environmental Services

Job No: D81292

WWP Regional, West Windsor-Plainsboro, NJ Project No: CMS

Sample	mple Collected			Matr	ix	Client		
Number	Date 7	Гіте Ву	Received	Code	Type	Sample ID		
D81292-14	03/30/16 1	10:15 MK	03/31/16	DW	Drinking Water	CMS-01-401-KC-P		
D81292-15	03/30/16 1	10:20 MK	03/31/16	DW	Drinking Water	CMS-01-502-KC-P		

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No D81292

Site: WWP Regional, West Windsor-Plainsboro, NJ Report Date 4/14/2016 3:53:57 PM

On 03/31/2016, 15 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 1.2 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D81292 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

#### Metals By Method EPA 200.8

Matrix: DW Batch ID: MP18448

- If required based on the turbidity results, all samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81292-1MS, D81292-1MSD were used as the QC samples for the metals analysis.

Matrix: DW Batch ID: MP18449

- If required based on the turbidity results, all samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81293-1MS, D81293-1MSD were used as the QC samples for the metals analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.



**Summary of Hits Job Number:** D81292

Account: PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/30/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D81292-1	CMS-01-NUR-DV	V-P				
Lead		0.0045	0.00050		mg/l	EPA 200.8
D81292-2	CMS-01-KIT-KC-	-Р				
Lead		0.0015	0.00050		mg/l	EPA 200.8
D81292-3	CMS-01-BL-DW-	P				
Lead		0.0015	0.00050		mg/l	EPA 200.8
D81292-4	CMS-01-GL-DW-	P				
Lead		0.014	0.00050		mg/l	EPA 200.8
D81292-5	CMS-01-215-DW-	.P				
Lead		0.0010	0.00050		mg/l	EPA 200.8
D81292-6	CMS-01-305-KC-	P				
No hits reported	in this sample.					
D81292-7	CMS-01-308_310-	DW-P				
Lead		0.0022	0.00050		mg/l	EPA 200.8
D81292-8	CMS-01-H713-DV	V-P				
No hits reported	in this sample.					
D81292-9	CMS-01-705-CF-I	P				
Lead		0.0023	0.00050		mg/l	EPA 200.8
D81292-10	CMS-02-H814-DV	V-P				
No hits reported	in this sample.					
D81292-11	CMS-02-813-CF-I	P				
Lead		0.010	0.00050		mg/l	EPA 200.8

**Summary of Hits Job Number:** D81292

Account: PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/30/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method		
D81292-12	CMS-01-317_318-	WC-P						
No hits reported in this sample.								
D81292-13	CMS-01-323-CF-P							
Lead		0.0011	0.00050		mg/l	EPA 200.8		
D81292-14	CMS-01-401-KC-	P						
Lead		0.0022	0.00050		mg/l	EPA 200.8		
D81292-15	CMS-01-502-KC-l	P						
Lead		0.0016	0.00050		mg/l	EPA 200.8		



# Section 4

## **Report of Analysis**

Client Sample ID: CMS-01-NUR-DW-P

Lab Sample ID:D81292-1Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0045	0.015	0.00050	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18448

RL = Reporting Limit

## **Report of Analysis**

Client Sample ID: CMS-01-KIT-KC-P

Lab Sample ID: D81292-2 **Date Sampled:** 03/30/16 Matrix: **Date Received:** 03/31/16 DW - Drinking Water Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0015	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209 (2) Prep QC Batch: MP18448

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



**ACCUTEST** 

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## **Report of Analysis**

Client Sample ID: CMS-01-BL-DW-P

Lab Sample ID:D81292-3Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0015	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

Instrument QC Batch: MA7209
 Prep QC Batch: MP18448

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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## **Report of Analysis**

Client Sample ID: CMS-01-GL-DW-P

Lab Sample ID:D81292-4Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.014	0.015	0.00050	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18448

RL = Reporting Limit



## **Report of Analysis**

Client Sample ID: CMS-01-215-DW-P

Lab Sample ID:D81292-5Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0010	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18448

RL = Reporting Limit



## **Report of Analysis**

Client Sample ID: CMS-01-305-KC-P

Lab Sample ID:D81292-6Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.00050	0 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18448

RL = Reporting Limit

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## **Report of Analysis**

Client Sample ID: CMS-01-308\_310-DW-P

Lab Sample ID:D81292-7Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0022	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18448

RL = Reporting Limit

## **Report of Analysis**

Client Sample ID: CMS-01-H713-DW-P

Lab Sample ID:D81292-8Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.00050	0 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18448

RL = Reporting Limit



## **Report of Analysis**

Client Sample ID: CMS-01-705-CF-P

Lab Sample ID:D81292-9Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0023	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

Instrument QC Batch: MA7209
 Prep QC Batch: MP18448

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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ACCUTEST
D81292

#### **Report of Analysis**

Client Sample ID: CMS-02-H814-DW-P

Lab Sample ID:D81292-10Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18448

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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#### **Report of Analysis**

Client Sample ID: CMS-02-813-CF-P

Lab Sample ID:D81292-11Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.010	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18449

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



#### **Report of Analysis**

Client Sample ID: CMS-01-317\_318-WC-P

Lab Sample ID:D81292-12Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18449

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

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#### **Report of Analysis**

Client Sample ID: CMS-01-323-CF-P

Lab Sample ID:D81292-13Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0011	0.015	0.00050	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

Instrument QC Batch: MA7209
 Prep QC Batch: MP18449

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

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#### **Report of Analysis**

Client Sample ID: CMS-01-401-KC-P

Lab Sample ID:D81292-14Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0022	0.015	0.00050	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18449

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

#### **Report of Analysis**

Client Sample ID: CMS-01-502-KC-P

Lab Sample ID:D81292-15Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0016	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18449

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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## Section 5

Misc. Forms	
Custody Documents and Other Forms	
Includes the following where applicable:	
Chain of Custody	

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#### CHAIN OF CUSTODY

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CM5-01-215-DW		9:28	MK				$\top \top$	Т							05
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ems-01-308.310		9:41	MK												07
CMS-01-H713-00	_	9:47	MK				$\dagger \dagger \dagger$								08
CMS-01-705-CF-		9:44	ak					П							09
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**D81292: Chain of Custody** Page 1 of 3

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#### **SGS Accutest Sample Receipt Summary**

Comments

Job Number: D812	92 Client:	PARS	Project: WWP REGIONA	Project: WWP REGIONAL CMS						
Date / Time Received: 3/31/2	2016 10:50:00 AM	Delivery Method:	Airbill #'s: fx	Airbill #'s: fx						
Cooler Temps (Initial/Adjusted	i): #1: (1.2/1.2);									
Cooler Security  1. Custody Seals Present: 2. Custody Seals Intact:  Cooler Temperature  1. Temp criteria achieved: 2. Cooler temp verification: 3. Cooler media: 4. No. Coolers:	or N 3. COC Pr 4. Smpl Date:  Y or N  ✓ □  IR Gun;  Ice (Bag)  1		Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:  Sample Integrity - Condition  1. Sample recvd within HT: 2. All containers accounted for: 3. Condition of sample:	Y or N  ✓ □  ✓ □  ✓ □  ✓ □  ✓ □  ✓ □  ✓ □  ✓						
Quality Control Preservation 1. Trip Blank present / cooler: 2. Trip Blank listed on COC: 3. Samples preserved properly: 4. VOCs headspace free:	Y or N N/A  □ □ □  □ □  □ □  □ □  □ □  □ □  □ □		Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis: 4. Compositing instructions clear: 5. Filtering instructions clear:	Y or N N/A  V						

D81292: Chain of Custody Page 3 of 3



Section 6

#### Metals Analysis

#### QC Data Summaries

#### Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

## SGS Accutest Instrument Runlog Inorganics Analyses

## Login Number: D81292 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Analyst: RM

Parameters: Pb

Date Analyzed: 04/14/16 Methods: EPA 200.8

Run ID: MA7209

Time		Dilution PS Factor Recov	Comments
07:39	ZZZZZZ	1	
07:42	ZZZZZZ	1	
07:46	MA7209-STD1	1	STDBLK
07:49	MA7209-STD2	1	STD1
07:52	MA7209-STD3	1	STD2
07:55	MA7209-STD4	1	STD3
07:58	MA7209-CRI1	1	Possible analytical problem. See rerun.
08:03	MA7209-CRI2	1	
08:06	MA7209-ICV1	1	
08:09	MA7209-ICB1	1	
08:12	MA7209-CCV1	1	
08:15	MA7209-CCB1	1	
08:18	ZZZZZZ	1	
08:21	MP18448-MB1	1	
08:24	MP18448-B1	1	
08:27	D81292-1	1	
08:30	MP18448-S1	1	
08:34	MA7209-CCV2	1	
08:37	MA7209-CCB2	1	
08:40	MP18448-S2	1	
08:43	D81292-2	1	
08:46	D81292-3	1	
08:49	D81292-4	1	
08:52	D81292-5	1	
08:55	D81292-6	1	
08:58	D81292-7	1	
09:01	D81292-8	1	
09:04	D81292-8	1	
09:04	D81292-9	1	
09:07	D81292-10	1	
09:10	MA7209-CCV3	1	
09:13	MA7209-CCB3	1	
09:17	MP18449-MB1	1	

## SGS Accutest Instrument Runlog Inorganics Analyses

## Login Number: D81292 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Analyst: RM Run ID: MA7209

Parameters: Pb

---->

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:20	MP18449-B1	1		
09:23	D81293-1	1		(sample used for QC only; not part of login D81292)
09:26	MP18449-S1	1		
09:29	MP18449-S2	1		
09:32	D81292-10	1		
09:35	D81292-11	1		
09:38	D81292-12	1		
09:41	D81292-13	1		
09:44	D81292-14	1		
9:47	MA7209-CCV4	1		
09:50	MA7209-CCB4	1		
Last r	D81292-15 eportable sample ZZZZZZ	1 /prep for 1	job D812	92
10:00	ZZZZZZ	1		
10:03	ZZZZZZ	1		
L0:06	ZZZZZZ	1		
10:09	MP18450-MB1	1		
10:12	MP18450-B1	1		
10:15	D81293-6	1		(sample used for QC only; not part of login D81292)
10:18	MP18450-S1	1		
10:21	MP18450-S2	1		
10:24	MA7209-CCV5	1		
Last r	MA7209-CCB5 eportable CCB for ZZZZZZ	1 r job D81: 1	292	
10:34	ZZZZZZ	1		
10:37	ZZZZZZ	1		
10:40	ZZZZZZ	1		
10:43	ZZZZZZ	1		
10:46	ZZZZZZ	1		
10:49	ZZZZZZ	1		
10:52	ZZZZZZ	1		
10:55	ZZZZZZ	1		
	MP18451-MB1	1		

SGS 30 of 50 ACCUTEST

#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: D81292 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Analyst: RM Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Parameters: Pb

Time		Dilution PS Factor Recov	Comments
11:01	MA7209-CCV6	1	
11:04	MA7209-CCB6	1	
11:07	MP18451-B1	1	
11:10	D81294-1	1	(sample used for QC only; not part of login D81292)
11:14	MP18451-S1	1	
11:17	MP18451-S2	1	
11:20	ZZZZZZ	1	
11:23	ZZZZZZ	1	
11:26	ZZZZZZ	1	
11:29	ZZZZZZ	1	
11:32	ZZZZZZ	1	
11:35	ZZZZZZ	1	
11:38	MA7209-CCV7	1	
11:41	MA7209-CCB7	1	
11:44	ZZZZZZ	1	
11:47	ZZZZZZ	1	
11:50	ZZZZZZ	1	
11:53	MP18447-MB1	1	
11:56	MP18447-B1	1	
12:00	D81295-1	1	(sample used for QC only; not part of login D81292)
12:03	MP18447-S1	1	
12:06	MP18447-S2	1	
12:09	ZZZZZZ	1	
12:12	ZZZZZZ	1	
12:15	MA7209-CCV8	1	
12:18	MA7209-CCB8	1	
12:21	ZZZZZZ	1	
12:24	ZZZZZZ	1	
12:27	ZZZZZZ	1	
12:30	ZZZZZZ	1	
12:33	ZZZZZZ	1	
12:36	ZZZZZZ	1	
12:40	ZZZZZZ	1	

#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: D81292 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Analyst: RM Parameters: Pb

Para	ameters: Pb		
Time	Sample Description	Dilutior Factor	Comments
12:43	MP18452-MB1	1	
12:46	MP18452-B1	1	see rerun
12:49	D81333-1	1	(sample used for QC only; not part of login D81292)
12:52	MA7209-CCV9	1	
12:55	MA7209-CCB9	1	
12:58	MP18452-S1	1	
13:01	MP18452-S2	1	
13:04	ZZZZZZ	1	
13:07	ZZZZZZ	1	
13:10	ZZZZZZ	1	
13:13	ZZZZZZ	1	
13:17	ZZZZZZ	1	
13:20	ZZZZZZ	1	
13:23	ZZZZZZ	1	
13:26	ZZZZZZ	1	
13:29	MA7209-CCV10	1	
13:32	MA7209-CCB10	1	
13:35	ZZZZZZ	1	
13:38	MA7209-CCV11	1	
13:41	MA7209-CCB11	1	
14:03	ZZZZZZ	1	
14:06	ZZZZZZ	1	
14:09	MP18453-MB1	1	
14:12	MP18453-B1	1	
14:15	D81333-6	1	(sample used for QC only; not part of login D81292)
14:26	MP18453-S1	1	
14:29	MP18453-S2	1	
14:32	ZZZZZZ	1	
14:35	ZZZZZZ	1	
14:38	MP18452-B1	1	
14:41	MA7209-CCV12	1	
14:44	MA7209-CCB12	1	

Refer to raw data for calibration curve and standards.

#### Login Number: D81292 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

	meters. PD		
Time	Sample Description	Istd#1	Istd#2
07:39	ZZZZZZ	454198	502850
07:42	ZZZZZZ	443803	488302
07:46	MA7209-STD1	440446 R	488787 R
07:49	MA7209-STD2	432812	477471
07:52	MA7209-STD3	444552	471684
07:55	MA7209-STD4	418479	449504
07:58	MA7209-CRI1	No result	s reported for the elements associated with this internal standard.
08:03	MA7209-CRI2	427738	455261
08:06	MA7209-ICV1	441305	467474
08:09	MA7209-ICB1	423330	464361
08:12	MA7209-CCV1	437487	468907
08:15	MA7209-CCB1	425164	462506
08:18	ZZZZZZ	393164	392547
08:21	MP18448-MB1	401369	417516
08:24	MP18448-B1	396977	418679
08:27	D81292-1	411118	413248
08:30	MP18448-S1	415297	409788
08:34	MA7209-CCV2	440520	469021
08:37	MA7209-CCB2	411664	454809
08:40	MP18448-S2	408626	403631
08:43	D81292-2	400515	399454
08:46	D81292-3	401357	405168
08:49	D81292-4	403967	405826
08:52	D81292-5	405563	404771
08:55	D81292-6	410066	408196
08:58	D81292-7	404010	402560
09:01	D81292-8	404652	397730
09:04	D81292-8	402293	401894
09:04	D81292-9	402293	401894
09:07	D81292-10	406563	402074
09:10	MA7209-CCV3	439057	470400
09:13	MA7209-CCB3	421464	456896
09:17	MP18449-MB1	400391	403203

## Login Number: D81292 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Time	Sample Description	Istd#1	Istd#2
09:20	MP18449-B1	399236	410408
09:23	D81293-1	404435	404959
09:26	MP18449-S1	401844	403961
09:29	MP18449-S2	401753	404009
09:32	D81292-10	402501	398455
09:35	D81292-11	406017	393104
09:38	D81292-12	401059	401168
09:41	D81292-13	398197	399160
09:44	D81292-14	399848	400904
09:47	MA7209-CCV4	433177	455140
09:50	MA7209-CCB4	417109	449909
09:54	D81292-15	396983	394592
09:57	ZZZZZZ	391415	390231
10:00	ZZZZZZ	400484	395177
10:03	ZZZZZZ	407978	399118
10:06	ZZZZZZ	409640	396550
10:09	MP18450-MB1	415820	418350
10:12	MP18450-B1	408609	405182
10:15	D81293-6	410586	402601
10:18	MP18450-S1	406917	398840
10:21	MP18450-S2	407613	403050
10:24	MA7209-CCV5	432231	449692
10:28	MA7209-CCB5	423323	449467
10:31	ZZZZZZ	401905	390589
10:34	ZZZZZZ	399604	392980
10:37	ZZZZZZ	409739	393477
10:40	ZZZZZZ	402904	397071
10:43	ZZZZZZ	407746	396539
10:46	ZZZZZZ	415698	400216
10:49	ZZZZZZ	406956	400821
10:52	ZZZZZZ	406046	399513
10:55	ZZZZZZ	402207	397845
10:58	MP18451-MB1	411878	406337

## Login Number: D81292 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Time	Sample Description	Istd#1	Istd#2
	MA7209-CCV6		450090
11:04	MA7209-CCB6	420244	441583
11:07	MP18451-B1	410443	398362
11:10	D81294-1	419007	399880
11:14	MP18451-S1	414012	400717
11:17	MP18451-S2	413388	401939
11:20	ZZZZZZ	403070	398111
11:23	ZZZZZZ	407605	386406
11:26	ZZZZZZ	415288	394425
11:29	ZZZZZZ	405192	392371
11:32	ZZZZZZ	410577	397729
11:35	ZZZZZZ	405172	387233
11:38	MA7209-CCV7	440801	447223
11:41	MA7209-CCB7	421386	436272
11:44	ZZZZZZ	399478	386705
11:47	ZZZZZZ	400781	387378
11:50	ZZZZZZ	413019	389909
11:53	MP18447-MB1	417677	411702
11:56	MP18447-B1	407027	396094
12:00	D81295-1	415831	393077
12:03	MP18447-S1	419655	402165
12:06	MP18447-S2	424122	403599
12:09	ZZZZZZ	402781	384413
12:12	ZZZZZZ	403429	387983
12:15	MA7209-CCV8	435341	436507
12:18	MA7209-CCB8	423104	429492
12:21	ZZZZZZ	412393	385949
12:24	ZZZZZZ	407628	383985
12:27	ZZZZZZ	409041	382610
12:30	ZZZZZZ	407799	385156
12:33	ZZZZZZ	406922	386009
12:36	ZZZZZZ	412740	384586
12:40	ZZZZZZ	401709	382824



Login Number: D81292 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Time	Sample Description	Istd#1	Istd#2
12:43	MP18452-MB1	420241	401814
12:46	MP18452-B1	419395	397055
12:49	D81333-1	409448	385797
12:52	MA7209-CCV9	430672	429843
12:55	MA7209-CCB9	417749	417025
12:58	MP18452-S1	418230	385399
13:01	MP18452-S2	407146	383643
13:04	ZZZZZZ	408302	371466
13:07	ZZZZZZ	403689	379674
13:10	ZZZZZZ	411539	386596
13:13	ZZZZZZ	403197	370721
13:17	ZZZZZZ	416680	381802
13:20	ZZZZZZ	407648	378587
13:23	ZZZZZZ	406024	374405
13:26	ZZZZZZ	408407	372818
13:29	MA7209-CCV10	435942	413205
13:32	MA7209-CCB10	416214	413753
13:35	ZZZZZZ	404822	362076
13:38	MA7209-CCV11	426568	411895
13:41	MA7209-CCB11	409523	407424
14:03	ZZZZZZ	399108	396795
14:06	ZZZZZZ	402218	391683
14:09	MP18453-MB1	378082	358105
14:12	MP18453-B1	386228	358559
14:15	D81333-6	385509	348769
14:26	MP18453-S1	442219	399666
14:29	MP18453-S2	443365	396207
14:32	ZZZZZZ	449246	398780
14:35	ZZZZZZ	444286	403215
14:38	MP18452-B1	454603	416082
14:41	MA7209-CCV12	468425	438157
14:44	MA7209-CCB12	451676	437854
R = Re	eference for IST	D limits.	! = Outside limits.

Login Number: D81292 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209 File ID: PA041416DW.REP

Analyst: RM

Parameters: Pb

Sample Time Description Istd#1 Istd#2

LEGEND:

Istd#	<u>Parameter</u>	Limits	
Istd#1	Yttrium	60-125	%
Istd#2	Bismuth	60-125	용

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81292

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	RL	IDL	08:09 ICB1 raw	final	08:15 CCB1 raw	final	08:37 CCB2 raw	final	09:13 CCB3 raw	final
Copper	2.0	.06	anr							
Lead	0.50	.0079	0.15	<0.50	0.083	<0.50	0.12	<0.50	0.067	<0.50

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

#### BLANK RESULTS SUMMARY

Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81292

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	RL	IDL	09:50 CCB4 raw	final	10:28 CCB5 raw	final
Copper	2.0	.06	anr			
Lead	0.50	.0079	0.071	<0.50	0.11	<0.50

(\*) Outside of QC limits (anr) Analyte not requested

## CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81292
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery Run ID: MA7209 Units: ug/1

Time: Sample ID: Metal	ICV True	08:06 ICV1 Results	% Rec	CCV True	08:12 CCV1 Results	% Rec	CCV True	08:34 CCV2 Results	% Rec
Copper	anr								
Lead	100	102	102.0	50	51.4	102.8	50	52.3	104.6

(\*) Outside of QC limits (anr) Analyte not requested

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#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81292

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Units: ug/l

Time: Sample ID: Metal	CCV True	09:10 CCV3 Results	% Rec	CCV True	09:47 CCV4 Results	% Rec	CCV True	10:24 CCV5 Results	% Rec
Copper	anr								
Lead	50	51.6	103.2	50	52.2	104.4	50	51.5	103.0

(\*) Outside of QC limits (anr) Analyte not requested

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: D81292
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 50 to 150 % Recovery Run ID: MA7209 Units: ug/1

Time: Sample ID: Metal		CRIA True	08:03 CRI2 Results	% Rec
Copper	2.0	2.0	anr	
Lead	0.50	0.50	0.51	102.0

(\*) Outside of QC limits
(anr) Analyte not requested

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#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D81292

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18448 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.00020	<0.00050

Associated samples MP18448: D81292-1, D81292-2, D81292-3, D81292-4, D81292-5, D81292-6, D81292-7, D81292-8, D81292-9, D81292-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

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## 6.2.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81292
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18448 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81292-1 Original		Spikelot ICPALL2		QC Limits
Copper					
Lead	0.0045	0.20	0.20	97.8	70-130

Associated samples MP18448: D81292-1, D81292-2, D81292-3, D81292-4, D81292-5, D81292-6, D81292-7, D81292-8, D81292-9, D81292-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

# 6.2.2 6

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81292 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18448 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Metal	D81292-1 Original MSD	Spikelot ICPALL2 % Rec	MSD QC RPD Limit
Copper			
Lead	0.0045 0.19	0.20 92.8	5.1 20

Associated samples MP18448: D81292-1, D81292-2, D81292-3, D81292-4, D81292-5, D81292-6, D81292-7, D81292-8, D81292-9, D81292-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81292
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18448 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Associated samples MP18448: D81292-1, D81292-2, D81292-3, D81292-4, D81292-5, D81292-6, D81292-7, D81292-8, D81292-9, D81292-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D81292

Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18449 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000021	<0.00050

 ${\tt Associated \ samples \ MP18449: \ D81292-11, \ D81292-12, \ D81292-13, \ D81292-14, \ D81292-15}$ 

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

## 0.3.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81292
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18449 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81293-1 Original MS	Spikelot ICPALL2 % Rec	QC Limits
Copper			
Lead	0.00076 0.19	0.20 94.6	70-130

Associated samples MP18449: D81292-11, D81292-12, D81292-13, D81292-14, D81292-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

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ACCUTEST

## 0.3.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81292
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18449 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81293-1 Original MSD	Spikelot ICPALL2 % Rec	MSD RPD	QC Limit
Copper				
Lead	0.00076 0.19	0.20 94.6	0.0	20

Associated samples MP18449: D81292-11, D81292-12, D81292-13, D81292-14, D81292-15

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81292 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18449 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Metal	BSP Result	Spikelot ICPALL2		QC Limits
Copper				
Lead	0.19	0.20	95.0	85-115

 ${\tt Associated \ samples \ MP18449: \ D81292-11, \ D81292-12, \ D81292-13, \ D81292-14, \ D81292-15}$ 

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 



**PARS** 



# APPENDIX B LABORATORY CERTIFICATION

# State of New Jersey Department of Environmental Protection Certifies That SGS Accutest Inc. – Wheat Ridge

Laboratory Certification ID # CO007

is hereby approved as a

Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2016



Mille M. Pott p get

Joseph F. Aiello Assistant Director

NJDEP is a NELAP Recognized Accreditation Body





## LEAD IN DRINKING WATER TESTING REPORT

WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT DUTCH NECK ELEMENTARY SCHOOL 392 VILLAGE ROAD EAST WEST WINDSOR, NEW JERSEY 08550

#### PREPARED FOR:

West Windsor-Plainsboro Regional School District 505 Village Road West PO Box 505 West Windsor, New Jersey 08550

#### PREPARED BY:

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PARS Project No. 565-84

**April 2016** 



LABORATORY CERTIFICATION

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT DUTCH NECK ELEMENTARY SCHOOL APRIL 2016

**PARS** 

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**PARS** 

#### **EXECUTIVE SUMMARY**

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Dutch Neck Elementary School (DNES). PARS conducted the lead in drinking water testing on March 29, 2016 and April 19, 2016. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the United States Environmental Protection Agency (USEPA) 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (USEPA 3Ts). PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

#### **FINDINGS**

The USEPA National Primary Drinking Water Regulations requires that immediate action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 milligrams per liter (mg/l). Exceedance of the 0.015 mg/l action level was identified in one sample in the DNES. A total of 12 water samples were collected and analyzed. Laboratory analysis revealed that the room 11 drinking water bubbler was above the action level of 0.015 mg/l. The room 11 drinking water bubbler was initially sampled on March 29, 2016, and resampled on April 19, 2016. The lead levels decreased from 0.018 mg/l to 0.0039 mg/l in the primary First Draw sample collected. The lead levels further decreased to 0.00066 mg/l in the 30 Second Flush sample collected. The 0.015 mg/l action level was not exceeded in the re-sampling of the room 11 drinking water bubbler.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic flushing of the school taps and testing per state and federal regulations.



**PARS** 

#### 1.0 INTRODUCTION

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Dutch Neck Elementary School (DNES). The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the *USEPA 3Ts*. PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

Sampling methodology is described in Section 2.0, the Lead in Drinking Water Findings are discussed in Section 3.0, and the Conclusions and Recommendations are presented in Section 4.0. A list of the sample locations and results are provided in **Table 1**. The Laboratory Analytical Report and Laboratory NELAC Certification are provided in **Appendix A** and **B**, respectively.

This report is intended for the sole use of WWP. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations, is at risk of said user.



**PARS** 

#### 2.0 LEAD IN DRINKING WATER SAMPLING

PARS conducted lead in drinking water testing at the DNES on March 29, 2016 and April 19, 2016. The lead in drinking water sampling was conducted by Christa Casciolini, Melissa Konieczny, and Michael Nixon of PARS.

PARS performed lead in drinking water testing at a total of eight (8) drinking water fountains (bubbler and cooler units) and two (2) faucets in the nurse's office and kitchen locations in the DNES.

All samples were collected following the USEPA First Draw sampling protocol. The First Draw sample collection occurred in the morning prior to the facility opening and before any water was drawn in the building, including toilet flushing. The water was unused for six (6) to eight (8) hours prior to collection. Arrangements were made to sample the water outlets prior to the arrival of teachers and students.

The samples were placed in pre-preserved plastic bottles and submitted for laboratory analysis to SGS Accutest for two-week turnaround. SGS Accutest is a New Jersey Department of Environmental Protection (NJDEP) certified laboratory for lead in drinking water (NELAC #CO007 and #12129). All samples were analyzed using USEPA Method 200.8 for the determination of trace elements in waters and wastes by inductively coupled plasma – mass spectrometry (ICP-MS). Chain-of-custody protocols were followed.



**PARS** 

#### 3.0 LEAD IN DRINKING WATER FINDINGS

Exceedance of the 0.015 mg/l action level was identified in one sample in the DNES. A total of 12 water samples were collected and analyzed. Laboratory analysis revealed that the room 11 drinking water bubbler was above the action level of 0.015 mg/l. The room 11 drinking water bubbler was initially sampled on March 29, 2016, and re-sampled on April 19, 2016. The lead levels decreased from 0.018 mg/l to 0.0039 mg/l in the primary First Draw sample collected. The lead levels further decreased to 0.00066 mg/l in the 30 Second Flush sample collected. The 0.015 mg/l action level was not exceeded in the re-sampling of the room 11 drinking water bubbler.

Lead in drinking water tabulated results for the DNES are provided in **Table 1**. The laboratory analytical report is included in **Appendix A.** The laboratory certification is included in **Appendix B**.

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#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

A total of eight (8) drinking water fountains and two (2) faucets in the nurse's office and kitchen locations were tested at the DNES. The USEPA recommends that action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 mg/l. Exceedance of the 0.015 mg/l action level was identified in one sample in the DNES. A total of 12 water samples were collected and analyzed. Laboratory analysis revealed that the room 11 drinking water bubbler was above the action level of 0.015 mg/l. The room 11 drinking water bubbler was initially sampled on March 29, 2016, and re-sampled on April 19, 2016. The lead levels decreased from 0.018 mg/l to 0.0039 mg/l in the primary First Draw sample collected. The lead levels further decreased to 0.00066 mg/l in the 30 Second Flush sample collected. The 0.015 mg/l action level was not exceeded in the re-sampling of the room 11 drinking water bubbler.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic flushing of the school taps and testing per state and federal regulations.

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PARS appreciates the opportunity to assist West Windsor-Plainsboro Regional School District with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

PARS ENVIRONMENTAL, INC.

Christa M. Casciolini

**Project Geologist** 

Margaret Halasnik

Principal Industrial Hygienist

Nargaret Halasin



## 

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT DUTCH NECK ELEMENTARY SCHOOL APRIL 2016

## TABLE 1 DRINKING WATER RESULTS TABLE

#### TABLE 1

## LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT DUTCH NECK ELEMENTARY SCHOOL

APRIL 2016

All samples are primary (first draw) samples. Except for one (1) 30 second flush sample collected on 4/19/16 during re-sampling of the drinking water bubbler in room 11.

All faucets sampled are cold water, unless noted.

EPA Action limit = 0.015 milligrams per liter (mg/l)

School: Dutch Neck Elementary School
Sampling Date: 3/29/2016 and 4/19/2016

Exceeds EPA Action Limit (> 0.015 mg/l)

Exceeds EPA Action Limit ( > 0.015 mg/l)
Hit = result > 0.00050 detection limit

03/29/16 Initial Sampling

Accutest Mountain States						
Job Number:	D81295					
Account:	PARS Environmental Services					
Project:	WWP Regional, West Windsor-Plainsboro, NJ					
Project Number:	Dutch Neck Elementary School					

										Legena:	IIIt
Client Sample ID:		DNE-01-NUR-NS-P	DNE-01-H2_3-DW- P	DNE-01-11-DW-P	DNE-01-H12-DW-P	DNE-01-KIT-KC-P	DNE-01-17-DW-P	DNE-01-H301-WC- P	DNE-01-302-DW-P	DNE-02-H207-WC-P	DNE-02-202-DW
Lab Sample ID:		D81295-1	D81295-2	D81295-3	D81295-4	D81295-5	D81295-6	D81295-7	D81295-8	D81295-9	D81295-10
Date Sampled:		3/29/2016	3/29/2016	3/29/2016	3/29/2016	3/29/2016	3/29/2016	3/29/2016	3/29/2016	3/29/2016	3/29/2016
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water
Ietals Analysis											
Metals Analysis											
Metais Analysis	mg/l	0.014	0.002	0.018	0.002	0.00082	0.0018	<0.00050	<0.00050	<0.00050	0.0032

04/19/16 Resampling

<sup>a</sup> Analysis performed at Accutest Laboratories, Wheat Ridge, CO.

Accutest New Jersey		A	pr 26, 2016 13:40 pn
Job Number:	JC18608		
Account:	PARS Environm	ental Services	
Project:	WWP Schools-D Windsor, NJ	outch Neck, 321 Villag	e Road East, West
Project Number:	565-84		
		Legend:	Hit
Client Sample ID:		DEN-01-11-DW-P	DEN-01-11-DW-F
Lab Sample ID:		JC18608-1	JC18608-2
Date Sampled:		4/19/2016	4/19/2016
Matrix:		Drinking Water	Drinking Water
Metals Analysis			
Metals Analysis		0.0039	0.00066

TABLE 1

#### LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT **DUTCH NECK ELEMENTARY SCHOOL**

APRIL 2016

Client Sample ID Format: Floor:

School-Floor-Room-Outlet-Sample Type

01 = First floor

02 = Second floor

### = Room number ###

Room:

###-### = Sample between room number ### and room #

H### = Hallway by room number ### BL = Boy's locker room

CAF = Cafeteria FR = Faculty room

GL = Girl's locker room KIT = Kitchen

MGYM = Main gym MO = Main office

NUR = Nurse's office SGYM = Small gym TGL = Team girl's locker room

TL = Teacher's lounge TP = Teacher's prep room PLR = Pool Locker room

Sample Type:  $BF = Bathroom \ faucet$ 

CF = Classroom faucet

Outlet:

 $F = Flush \ sample$ 

P = Primary (first draw) sample

DW= Drinking water bubbler EC = Home economics room, cold KC = Kitchen faucet, cold LC = Lounge faucet, cold NS = Nurse's office sink WC = Water cooler (chiller unit)

TF or TS = Teacher's faucet or Teacher's sink



## APPENDIX A LABORATORY ANALYTICAL REPORTS



## ACCUTEST Mountain States

04/14/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

#### Technical Report for

#### **PARS** Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ

**DNE** 

SGS Accutest Job Number: D81295

Sampling Date: 03/29/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 ccasciolini@ParsEnviro.com

ATTN: Crista Casciolini

Total number of pages in report: 41

TNI FORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman Laboratory Director

Seed walk

Client Service contact: Cristina Araujo 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY

CO (CO00049), EPA 515.4 Provisional

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.

Test results relate only to samples analyzed.

SGS

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## **Sample Summary**

Job No:

D81295

PARS Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ Project No: DNE

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
D81295-1	03/29/16	07:51 MK	03/31/16	DW	Drinking Water	DNE-01-NUR-NS-P
D81295-2	03/29/16	08:00 MK	03/31/16	DW	Drinking Water	DNE-01-H2_3-DW-P
D81295-3	03/29/16	08:06 MK	03/31/16	DW	Drinking Water	DNE-01-11-DW-P
D81295-4	03/29/16	08:09 MK	03/31/16	DW	Drinking Water	DNE-01-H12-DW-P
D81295-5	03/29/16	08:11 MK	03/31/16	DW	Drinking Water	DNE-01-KIT-KC-P
D81295-6	03/29/16	08:16 MK	03/31/16	DW	Drinking Water	DNE-01-17-DW-P
D81295-7	03/29/16	08:21 MK	03/31/16	DW	Drinking Water	DNE-01-H301-WC-P
D81295-8	03/29/16	08:23 MK	03/31/16	DW	Drinking Water	DNE-01-302-DW-P
D81295-9	03/29/16	08:32 MK	03/31/16	DW	Drinking Water	DNE-02-H207-WC-P
D81295-10	03/29/16	08:35 MK	03/31/16	DW	Drinking Water	DNE-02-202-DW-P

#### CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** PARS Environmental Services **Job No** D81295

Site: WWP Regional, West Windsor-Plainsboro, NJ Report Date 4/14/2016 3:55:19 PM

On 03/31/2016, 10 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 4.6 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D81295 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

#### **Metals By Method EPA 200.8**

Matrix: DW Batch ID: MP18447

- If required based on the turbidity results, all samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81295-1MS, D81295-1MSD were used as the QC samples for the metals analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.



**Summary of Hits Job Number:** D81295

PARS Environmental Services Account:

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

03/29/16 **Collected:** 

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D81295-1	DNE-01-NUR-NS	-P				
Lead		0.014	0.00050		mg/l	EPA 200.8
D81295-2	DNE-01-H2_3-DV	V-P				
Lead		0.0020	0.00050		mg/l	EPA 200.8
D81295-3	DNE-01-11-DW-F					
Lead		0.018	0.00050		mg/l	EPA 200.8
D81295-4	DNE-01-H12-DW	<b>-P</b>				
Lead		0.0020	0.00050		mg/l	EPA 200.8
D81295-5	DNE-01-KIT-KC	-P				
Lead		0.00082	0.00050		mg/l	EPA 200.8
D81295-6	DNE-01-17-DW-F	•				
Lead		0.0018	0.00050		mg/l	EPA 200.8
D81295-7	DNE-01-H301-W	C-P				
No hits reported	in this sample.					
D81295-8	DNE-01-302-DW-	·P				
No hits reported	in this sample.					
D81295-9	DNE-02-H207-W	C-P				
No hits reported	in this sample.					
D81295-10	DNE-02-202-DW-	·P				
Lead		0.0032	0.00050		mg/l	EPA 200.8





## Section 4

Sample Results		
Report of Analysis	S	

### 4

## **Report of Analysis**

Client Sample ID: DNE-01-NUR-NS-P

Lab Sample ID:D81295-1Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.014	0.015	0.00050	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18447

RL = Reporting Limit

## **Report of Analysis**

Client Sample ID: DNE-01-H2\_3-DW-P

Lab Sample ID:D81295-2Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0020	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18447

RL = Reporting Limit

## **Report of Analysis**

Client Sample ID: DNE-01-11-DW-P

Lab Sample ID:D81295-3Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.018	0.015	0.00050	0 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18447

RL = Reporting Limit

## **Report of Analysis**

Client Sample ID: DNE-01-H12-DW-P

Lab Sample ID:D81295-4Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0020	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18447

RL = Reporting Limit

## **Report of Analysis**

Client Sample ID: DNE-01-KIT-KC-P

Lab Sample ID:D81295-5Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.00082	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18447

RL = Reporting Limit

## **Report of Analysis**

Client Sample ID: DNE-01-17-DW-P

Lab Sample ID: D81295-6 **Date Sampled:** 03/29/16 Matrix: **Date Received:** 03/31/16 DW - Drinking Water Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0018	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209 (2) Prep QC Batch: MP18447

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)





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## **Report of Analysis**

Client Sample ID: DNE-01-H301-WC-P

Lab Sample ID:D81295-7Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18447

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

## **Report of Analysis**

Client Sample ID: DNE-01-302-DW-P

Lab Sample ID:D81295-8Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	60 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18447

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



## **Report of Analysis**

Client Sample ID: DNE-02-H207-WC-P

Lab Sample ID:D81295-9Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18447

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



## **Report of Analysis**

Client Sample ID: DNE-02-202-DW-P

Lab Sample ID:D81295-10Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0032	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18447

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



## Section 5

Misc. Forms  Custody Docum	ments and Other Forms	
Includes the follow	wing where applicable:	

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SGS ACCU	TEST	Ď.		Louie 136	, Daytor	, NJ 088		20				Fracking #				atie Order	1	D 8	15	95
			IEL, /32-32;		ceutest.e		199/348	50			SGS Acc	ulaal Quoi	e #	500000000000	S	S Accule	at Job #	T	17	159
Client / Reporting Information	Project Name.		Project									Regu	asted An	alysis	see TES	IT COL	E shee	0)		Matrix Codes
Company Name PARS	1 '	P Reg	I was	Ď	NE	•														DW - Drinking Water
Street Address	Street	, ven	WIN.																	GW - Ground Water WW - Water
City State Str., Surle 540	City		State	Billing I	nformatic	on ( if diffe	rent fro	m Rep	ort to)		4									SW - Surface Water SO - Soil SL- Sludge
Robbinshile, NS 08691 Project Contact  E-mail	",		Citato	COM,pai.	,						lism									SED-Sediment OI - Oil
	Project#			Street A	ldress						50)									LIQ - Other Liquid
Christa Casciolini Casciolini @ Pa	Client Purchase	(U)Ph Order#		City			Šta	ate		Zip	2009									SOL - Other Solid WP - Wipe
609-890-7277				L																FB-Fleld Blank EB-Equipment Blank
Sampler(s) Name(s) Phone #	Project Manager			Attention	i.											l				RB- Rinse Blank TB-Trip Blank
			Collection				- 5	lumber a	f preserve		7									7 TH. 30400-744-124-124-124-124-124-124-124-124-124-1
Sas Social Social Field ID / Point of Collection	MEOH/D: Visi#	Date	Time	Sampled by	Matrix	# of balties	5 E	103	NCINE DI Winter	EOH							-			LAS USE ONLY
DNE-01-NUR-NS P		9 1 2 9 1 LL	7:51	ML		1	I Z	1		æ Ш	V	-	-	-		-		+		AS O
2 DNE-01-H2-3-DW-P		oisulita	8 00	MK	ļ		H		++	╁┼┼	T.	-		+			+		$\vdash$	02
3 DNE-01-11-DW-P		2170111	8:06	m/L		ī		1	++-		X	$\neg \uparrow$				+	_			03
4 DNE-OI-HIA-DW-P		2170116	8:09	mv.		1	$\Box$	tit	11		V		$\neg$	<del> </del>	1	_	$\dashv$	+		04
3 DNE-01-KIT-KC-P		21 29 116	8:11	mic	l	1	$\dagger \dagger$	1	$\dagger \dagger$	H	1			1				1		05
9-WE-F1-10-3WG D		31.29 11/a	8:360	MIL		i	П	Ti			1×			1		$\neg$	<u> </u>	1		06
7-3WE-01-14301-WC-P		2129116	821	mi		1		1	11		1×			1						67
8 DNE - 01-302-DNU-P		3 29 16	8 23	MV.		1	П	1			X	$\neg \uparrow$								08
9 DNE-02-H207-WC-P		3   24   16	8:32	mr.		١		1	$\top$		X	Ť		- A		5	Bor			09
10 DNE-62-202-DW-P		3/29/16	8:35	ML		1		١			λ		11.23.	U Sarv	<u> </u>					10
		, ,											LA9	E. Vi		TION,	ent 2	2220-0		
									$\perp$											05
Turnaround Time ( Business days)	Approved By (SGS	Accutest PM); / Date	_	h	Commen	Data Sial "A" (L			Iformatic	n IYASP Cate	agory A	T			Comm	ente / St	ecial ins	tructions		15
Std. 10 Business Days						olal "B" ( L				IYASP Cau		-								
5 Day RUSH					FULLT1 NJ Redu	( Level 3+ od	4)			tate Forms DD Forms		]								
2 Day RUSH					Commen				_	Other										
other aweek				Comme		o <i>f Knowi</i> Results Or				arting isuits + QC	Summary	ŀ								***************************************
Emergency & Rush T/A data available VIA Lablink	A-					sults + QC								nvento	ry is ver	fied up	on rec	eipt in th	e Lab	oratory
Reimquished by Sampier: Date Yime:	1,1003	mple Custody m				ar time st	Reling	chaff dehed E	υ 008St	naion, inc	andrig c		loate	Tuno∮	77% R	eccived E	y: ,	K-h	$-\mathcal{I}$	1
Riddinisted by Scholler 1 Date Time (	116	Received By:	12 3	- 25	-16		2	alahed B	<u>-66</u>				3.25	7/6 Time:	2	sceived 2	. لاسمه ال	hu -	+:	3-31-16,10
Relinquished by: Day Time	16 17:00	Received By:	ed D		-		4 Custod				F G	<u>.                                    </u>			4		11,	Management		10 4
5		A					Juotaa	y oval E	701	_		. '	reserved yel	yere appii	venitili .			7	Coolei	Temp. 4.6

**D81295:** Chain of Custody

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## SGS Accutest Sample Receipt Summary

5. Filtering instructions clear:

Job Number: D8129	Olient:	PARS		Project: WWP REGIONAL DNE					
Date / Time Received: 3/31/2016 10:40:00 AM		Delivery Method:		Airbill #'s: fx					
Cooler Temps (Initial/Adjusted	): <u>#1: (4.6/4.6);</u>								
Cooler Security Y	or N	<u>Y</u> or	N Sample Integrit	ty - Documentation	Y or	N_			
Custody Seals Present:	3. COC Pro		1. Sample labels	present on bottles:	<b>✓</b>				
2. Custody Seals Intact:	4. Smpl Dates	s/Time OK 🗸	2. Container labe	ling complete:	✓				
Cooler Temperature	Y or N		3. Sample contain	ner label / COC agree:	$\checkmark$				
1. Temp criteria achieved:			Sample Integri	ty - Condition	Y or	N_			
Cooler temp verification:	IR Gun;		1. Sample recvd	within HT:	$\checkmark$				
3. Cooler media:	Ice (Bag)		2. All containers a	accounted for:	<b>✓</b>				
4. No. Coolers:	1		3. Condition of sa	ample:	Intac	ot			
Quality Control Preservation	Y or N N/A		Sample Integri	ty - Instructions	Y or	N N/A			
1. Trip Blank present / cooler:			1. Analysis requ	<del></del>	<b>✓</b>				
2. Trip Blank listed on COC:				ed for unspecified tests		<b>✓</b>			
3. Samples preserved properly:	<b>v</b>		3. Sufficient volu	ime recvd for analysis:	<b>~</b>				
4. VOCs headspace free:			4. Compositing i	nstructions clear:	П				

Comments

D81295: Chain of Custody Page 2 of 2

**✓** 



Section 6

### Metals Analysis

### QC Data Summaries

#### Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

## SGS Accutest Instrument Runlog Inorganics Analyses

## Login Number: D81295 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

Para	meters: Pb		
Time	Sample Description	Dilutior Factor	Comments
07:39	ZZZZZZ	1	
07:42	ZZZZZZ	1	
07:46	MA7209-STD1	1	STDBLK
07:49	MA7209-STD2	1	STD1
07:52	MA7209-STD3	1	STD2
07:55	MA7209-STD4	1	STD3
07:58	MA7209-CRI1	1	Possible analytical problem. See rerun.
08:03	MA7209-CRI2	1	
08:06	MA7209-ICV1	1	
08:09	MA7209-ICB1	1	
08:12	MA7209-CCV1	1	
08:15	MA7209-CCB1	1	
08:18	ZZZZZZ	1	
08:21	MP18448-MB1	1	
08:24	MP18448-B1	1	
08:27	D81292-1	1	(sample used for QC only; not part of login D81295)
08:30	MP18448-S1	1	
08:34	MA7209-CCV2	1	
08:37	MA7209-CCB2	1	
08:40	MP18448-S2	1	
08:43	ZZZZZZ	1	
08:46	ZZZZZZ	1	
08:49	ZZZZZZ	1	
08:52	ZZZZZZ	1	
08:55	ZZZZZZ	1	
08:58	ZZZZZZ	1	
09:01	ZZZZZZ	1	
09:04	ZZZZZZ	1	
09:04	ZZZZZZ	1	
09:07	ZZZZZZ	1	
09:10	MA7209-CCV3	1	
09:13	MA7209-CCB3	1	
09:17	MP18449-MB1	1	

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ACCUTEST

#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: D81295 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Analyst: RM Parameters: Pb

Pala	ameters: Pb Sample	Dilution	n PS	
Time	Description	Factor		Comments
09:20	MP18449-B1	1		
09:23	D81293-1	1		(sample used for QC only; not part of login D81295)
09:26	MP18449-S1	1		
09:29	MP18449-S2	1		
09:32	ZZZZZZ	1		
09:35	ZZZZZZ	1		
09:38	ZZZZZZ	1		
09:41	ZZZZZZ	1		
09:44	ZZZZZZ	1		
09:47	MA7209-CCV4	1		
09:50	MA7209-CCB4	1		
09:54	ZZZZZZ	1		
09:57	ZZZZZZ	1		
10:00	ZZZZZZ	1		
10:03	ZZZZZZ	1		
10:06	ZZZZZZ	1		
10:09	MP18450-MB1	1		
10:12	MP18450-B1	1		
10:15	D81293-6	1		(sample used for QC only; not part of login D81295)
10:18	MP18450-S1	1		
10:21	MP18450-S2	1		
10:24	MA7209-CCV5	1		
10:28	MA7209-CCB5	1		
10:31	ZZZZZZ	1		
10:34	ZZZZZZ	1		
10:37	ZZZZZZ	1		
10:40	ZZZZZZ	1		
10:43	ZZZZZZ	1		
10:46	ZZZZZZ	1		
10:49	ZZZZZZ	1		
10:52	ZZZZZZ	1		
10:55	ZZZZZZ	1		
10:58	MP18451-MB1	1		

SGS ACCUTEST

#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: D81295 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Analyst: RM Parameters: Pb

---->

Time	Sample Description			Comments
11:01	MA7209-CCV6	1		
11:04	MA7209-CCB6	1		
11:07	MP18451-B1	1		
11:10	D81294-1	1		(sample used for QC only; not part of login D81295)
11:14	MP18451-S1	1		
11:17	MP18451-S2	1		
11:20	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:26	ZZZZZZ	1		
11:29	ZZZZZZ	1		
11:32	ZZZZZZ	1		
11:35	ZZZZZZ	1		
11:38	MA7209-CCV7	1		
11:41	MA7209-CCB7	1		
11:44	ZZZZZZ	1		
11:47	ZZZZZZ	1		
11:50	ZZZZZZ	1		
11:53	MP18447-MB1	1		
11:56	MP18447-B1	1		
12:00	D81295-1	1		
12:03	MP18447-S1	1		
12:06	MP18447-S2	1		
12:09	D81295-2	1		
12:12	D81295-3	1		
12:15	MA7209-CCV8	1		
12:18	MA7209-CCB8	1		
12:21	D81295-4	1		
12:24	D81295-5	1		
12:27	D81295-6	1		
12:30	D81295-7	1		
12:33	D81295-8	1		
12:36	D81295-9	1		
	D81295-10 eportable sample	1 /prep for	job D812	95

## SGS Accutest Instrument Runlog Inorganics Analyses

## Login Number: D81295 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

Time	Sample Description			Comments
12:43	MP18452-MB1	1		
12:46	MP18452-B1	1		see rerun
12:49	D81333-1	1		(sample used for QC only; not part of login D81295)
12:52	MA7209-CCV9	1		
	MA7209-CCB9	1	205	
	reportable CCB fo MP18452-S1		295	
13:01	MP18452-S2	1		
13:04	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:13	ZZZZZZ	1		
13:17	ZZZZZZ	1		
13:20	ZZZZZZ	1		
13:23	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:29	MA7209-CCV10	1		
13:32	MA7209-CCB10	1		
13:35	ZZZZZZ	1		
13:38	MA7209-CCV11	1		
13:41	MA7209-CCB11	1		
14:03	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:09	MP18453-MB1	1		
14:12	MP18453-B1	1		
14:15	D81333-6	1		(sample used for QC only; not part of login D81295)
14:26	MP18453-S1	1		
14:29	MP18453-S2	1		
14:32	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:38	MP18452-B1	1		
14:41	MA7209-CCV12	1		
14:44	MA7209-CCB12	1		

Refer to raw data for calibration curve and standards.

#### INTERNAL STANDARD SUMMARY

Login Number: D81295 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Analyst: RM Parameters: Pb

Para	meters: Pb		
Time	Sample Description	Istd#1	Istd#2
07:39	ZZZZZZ	454198	502850
07:42	ZZZZZZ	443803	488302
07:46	MA7209-STD1	440446 R	488787 R
07:49	MA7209-STD2	432812	477471
07:52	MA7209-STD3	444552	471684
07:55	MA7209-STD4	418479	449504
07:58	MA7209-CRI1	No result	s reported for the elements associated with this internal standard.
08:03	MA7209-CRI2	427738	455261
08:06	MA7209-ICV1	441305	467474
08:09	MA7209-ICB1	423330	464361
08:12	MA7209-CCV1	437487	468907
08:15	MA7209-CCB1	425164	462506
08:18	ZZZZZZ	393164	392547
08:21	MP18448-MB1	401369	417516
08:24	MP18448-B1	396977	418679
08:27	D81292-1	411118	413248
08:30	MP18448-S1	415297	409788
08:34	MA7209-CCV2	440520	469021
08:37	MA7209-CCB2	411664	454809
08:40	MP18448-S2	408626	403631
08:43	ZZZZZZ	400515	399454
08:46	ZZZZZZ	401357	405168
08:49	ZZZZZZ	403967	405826
08:52	ZZZZZZ	405563	404771
08:55	ZZZZZZ	410066	408196
08:58	ZZZZZZ	404010	402560
09:01	ZZZZZZ	404652	397730
09:04	ZZZZZZ	402293	401894
09:04	ZZZZZZ	402293	401894
09:07	ZZZZZZ	406563	402074
09:10	MA7209-CCV3	439057	470400
09:13	MA7209-CCB3	421464	456896
09:17	MP18449-MB1	400391	403203



#### INTERNAL STANDARD SUMMARY

#### Login Number: D81295 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Analyst: RM

Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Para	meters: Pb			
Time	Sample Description	Istd#1	Istd#2	
09:20	MP18449-B1	399236	410408	
09:23	D81293-1	404435	404959	
09:26	MP18449-S1	401844	403961	
09:29	MP18449-S2	401753	404009	
09:32	ZZZZZZ	402501	398455	
09:35	ZZZZZZ	406017	393104	
09:38	ZZZZZZ	401059	401168	
09:41	ZZZZZZ	398197	399160	
09:44	ZZZZZZ	399848	400904	
09:47	MA7209-CCV4	433177	455140	
09:50	MA7209-CCB4	417109	449909	
09:54	ZZZZZZ	396983	394592	
09:57	ZZZZZZ	391415	390231	
10:00	ZZZZZZ	400484	395177	
10:03	ZZZZZZ	407978	399118	
10:06	ZZZZZZ	409640	396550	
10:09	MP18450-MB1	415820	418350	
10:12	MP18450-B1	408609	405182	
10:15	D81293-6	410586	402601	
10:18	MP18450-S1	406917	398840	
10:21	MP18450-S2	407613	403050	
10:24	MA7209-CCV5	432231	449692	
10:28	MA7209-CCB5	423323	449467	
10:31	ZZZZZZ	401905	390589	
10:34	ZZZZZZ	399604	392980	
10:37	ZZZZZZ	409739	393477	
10:40	ZZZZZZ	402904	397071	
10:43	ZZZZZZ	407746	396539	
10:46	ZZZZZZ	415698	400216	
10:49	ZZZZZZ	406956	400821	
10:52	ZZZZZZ	406046	399513	
10:55	ZZZZZZ	402207	397845	
10:58	MP18451-MB1	411878	406337	

**ACCUTEST** 

# Login Number: D81295 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Analyst: RM Parameters: Pb

Time	Sample Description	Istd#1	Istd#2
11:01	MA7209-CCV6	433782	450090
11:04	MA7209-CCB6	420244	441583
11:07	MP18451-B1	410443	398362
11:10	D81294-1	419007	399880
11:14	MP18451-S1	414012	400717
11:17	MP18451-S2	413388	401939
11:20	ZZZZZZ	403070	398111
11:23	ZZZZZZ	407605	386406
11:26	ZZZZZZ	415288	394425
11:29	ZZZZZZ	405192	392371
11:32	ZZZZZZ	410577	397729
11:35	ZZZZZZ	405172	387233
11:38	MA7209-CCV7	440801	447223
11:41	MA7209-CCB7	421386	436272
11:44	ZZZZZZ	399478	386705
11:47	ZZZZZZ	400781	387378
11:50	ZZZZZZ	413019	389909
11:53	MP18447-MB1	417677	411702
11:56	MP18447-B1	407027	396094
12:00	D81295-1	415831	393077
12:03	MP18447-S1	419655	402165
12:06	MP18447-S2	424122	403599
12:09	D81295-2	402781	384413
12:12	D81295-3	403429	387983
12:15	MA7209-CCV8	435341	436507
12:18	MA7209-CCB8	423104	429492
12:21	D81295-4	412393	385949
12:24	D81295-5	407628	383985
12:27	D81295-6	409041	382610
12:30	D81295-7	407799	385156
12:33	D81295-8	406922	386009
12:36	D81295-9	412740	384586
12:40	D81295-10	401709	382824



# Login Number: D81295 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

Para	meters: Pb		
Time	Sample Description	Istd#1	Istd#2
12:43	MP18452-MB1	420241	401814
12:46	MP18452-B1	419395	397055
12:49	D81333-1	409448	385797
12:52	MA7209-CCV9	430672	429843
12:55	MA7209-CCB9	417749	417025
12:58	MP18452-S1	418230	385399
13:01	MP18452-S2	407146	383643
13:04	ZZZZZZ	408302	371466
13:07	ZZZZZZ	403689	379674
13:10	ZZZZZZ	411539	386596
13:13	ZZZZZZ	403197	370721
13:17	ZZZZZZ	416680	381802
13:20	ZZZZZZ	407648	378587
13:23	ZZZZZZ	406024	374405
13:26	ZZZZZZ	408407	372818
13:29	MA7209-CCV10	435942	413205
13:32	MA7209-CCB10	416214	413753
13:35	ZZZZZZ	404822	362076
13:38	MA7209-CCV11	426568	411895
13:41	MA7209-CCB11	409523	407424
14:03	ZZZZZZ	399108	396795
14:06	ZZZZZZ	402218	391683
14:09	MP18453-MB1	378082	358105
14:12	MP18453-B1	386228	358559
14:15	D81333-6	385509	348769
14:26	MP18453-S1	442219	399666
14:29	MP18453-S2	443365	396207
14:32	ZZZZZZ	449246	398780
14:35	ZZZZZZ	444286	403215
14:38	MP18452-B1	454603	416082
14:41	MA7209-CCV12	468425	438157

R = Reference for ISTD limits. ! = Outside limits.

14:44 MA7209-CCB12 451676 437854

Login Number: D81295 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209 File ID: PA041416DW.REP

Analyst: RM

Parameters: Pb

Sample Time Description Istd#1 Istd#2

LEGEND:

Istd#	<u>Parameter</u>	Limits	
Istd#1	Yttrium	60-125	용
Istd#2	Bismuth	60-125	용

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81295

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	RL	IDL	08:09 ICB1 raw	final	08:15 CCB1 raw	final	08:37 CCB2 raw	final	09:13 CCB3 raw	final
Copper	2.0	.06	anr							
Lead	0.50	.0079	0.15	<0.50	0.083	<0.50	0.12	<0.50	0.067	<0.50

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81295

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	RL	IDL	09:50 CCB4 raw	final	10:28 CCB5 raw	final	11:04 CCB6 raw	final	11:41 CCB7 raw	final
Copper	2.0	.06	anr							
Lead	0.50	.0079	0.071	<0.50	0.11	<0.50	0.088	<0.50	0.077	<0.50

(\*) Outside of QC limits (anr) Analyte not requested

## BLANK RESULTS SUMMARY

Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81295

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	RL	IDL	12:18 CCB8 raw	final	12:55 CCB9 raw	final
Copper	2.0	.06	anr			
Lead	0.50	.0079	0.095	<0.50	0.095	<0.50

(\*) Outside of QC limits (anr) Analyte not requested

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81295

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Units: ug/l

Time: Sample ID: Metal	ICV True	08:06 ICV1 Results	% Rec	CCV True	08:12 CCV1 Results	% Rec	CCV True	08:34 CCV2 Results	% Rec
Copper	anr								
Lead	100	102	102.0	50	51.4	102.8	50	52.3	104.6

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81295

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	CCV True	09:10 CCV3 Results	% Rec	CCV True	09:47 CCV4 Results	% Rec	CCV True	10:24 CCV5 Results	% Rec
Copper	anr								
Lead	50	51.6	103.2	50	52.2	104.4	50	51.5	103.0

(\*) Outside of QC limits (anr) Analyte not requested

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81295

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Units: ug/l

Time: Sample ID: Metal	CCV True	11:01 CCV6 Results	% Rec	CCV True	11:38 CCV7 Results	% Rec	CCV True	12:15 CCV8 Results	% Rec	
Copper	anr									
Lead	50	52.1	104.2	50	50.4	100.8	50	51.1	102.2	

(\*) Outside of QC limits (anr) Analyte not requested

# CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81295

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery Run ID: MA7209 Units: ug/l

Time		12:52	
Sample II	): CCV	CCV9	
Metal	True	Results	% Rec

Copper	anr		
Lead	50	49.6	99.2

(\*) Outside of QC limits
(anr) Analyte not requested

\_\_\_\_

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: D81295
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 50 to 150 % Recovery Run ID: MA7209 Units: ug/1

Time: Sample ID: Metal		CRIA True	08:03 CRI2 Results	% Rec
Copper	2.0	2.0	anr	
Lead	0.50	0.50	0.51	102.0

(\*) Outside of QC limits
(anr) Analyte not requested

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D81295

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18447 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000011	<0.00050

Associated samples MP18447: D81295-1, D81295-2, D81295-3, D81295-4, D81295-5, D81295-6, D81295-7, D81295-8, D81295-9, D81295-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

# 6.2.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81295 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18447 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Metal	D81295- Origina		Spikelo ICPALL2	t % Rec	QC Limits
Copper					
Lead	0.014	0.18	0.20	83.0	70-130

Associated samples MP18447: D81295-1, D81295-2, D81295-3, D81295-4, D81295-5, D81295-6, D81295-7, D81295-8, D81295-9, D81295-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

# 6.2.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81295
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18447 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81295- Origina		Spikelot ICPALL2		MSD RPD	QC Limit
Copper						
Lead	0.014	0.17	0.20	78.0	5.7	20

Associated samples MP18447: D81295-1, D81295-2, D81295-3, D81295-4, D81295-5, D81295-6, D81295-7, D81295-8, D81295-9, D81295-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81295 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18447 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Associated samples MP18447: D81295-1, D81295-2, D81295-3, D81295-4, D81295-5, D81295-6, D81295-7, D81295-8, D81295-9, D81295-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 



# **ACCUTEST New Jersey**

04/25/16

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e-Hardcopy 2.0 **Automated Report** 

# Technical Report for

### **PARS** Environmental Services

WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

565-84

SGS Accutest Job Number: JC18608

Sampling Date: 04/19/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 RTorres@ParsEnviro.com

ATTN: Rafael Torres

Total number of pages in report: 30

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Maney +. Cole Nancy Cole Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest. Test results relate only to samples analyzed.

# **Sections:**

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# **Sample Summary**

PARS Environmental Services

Job No:

JC18608

WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ Project No: 565-84

Sample	Collected			Matr	ix	Client						
Number	Date	Time By	Received	Code	Type	Sample ID						
JC18608-1	04/19/16	06:10 MN	04/19/16	DW	Drinking Water	DEN-01-11-DW-P						
JC18608-2	04/19/16	06:11 MN	04/19/16	DW	Drinking Water	DEN-01-11-DW-F						

## CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No JC18608

Site: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, Report Date 4/25/2016 5:09:16 PM

On 04/19/2016, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 5.6 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC18608 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

#### Metals By Method EPA 200.8

Matrix: DW Batch ID: MP93239

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC18578-1MS, JC18578-1MSD were used as the QC samples for metals.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

SGS ACCU

# Page 1 of 1

**Summary of Hits Job Number:** JC18608

**Account:** PARS Environmental Services

Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

**Collected:** 04/19/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC18608-1	DEN-01-11-DW-P	,				
Lead		0.0039	0.00050		mg/l	EPA 200.8
JC18608-2	DEN-01-11-DW-F	,				
Lead		0.00066	0.00050		mg/l	EPA 200.8



# Section 4

Sample Results	
Report of Analysis	
•	

Page 1 of 1

# **Report of Analysis**

Client Sample ID: DEN-01-11-DW-P

Lab Sample ID: JC18608-1 **Date Sampled:** 04/19/16 Matrix: DW - Drinking Water **Date Received:** 04/19/16 Percent Solids: n/a

Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0039	0.015	0.0005	50 mg/l	1	04/20/16	04/20/16 јо	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39225 (2) Prep QC Batch: MP93239

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



**ACCUTEST** 

# **Report of Analysis**

Client Sample ID: DEN-01-11-DW-F

Lab Sample ID:JC18608-2Date Sampled:04/19/16Matrix:DW - Drinking WaterDate Received:04/19/16Percent Solids:n/a

**Project:** WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.00066	0.015	0.00050	0 mg/1	1	04/20/16	04/20/16 јо	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39225(2) Prep QC Batch: MP93239

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



8 of 30 ACCUTEST JC18608



Page 1 of 1



# **Section 5**

Misc. Forms

**Custody Documents and Other Forms** 

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



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0200	Client / Reporting Information	ก	Project Name:		Proje	ct Inform	ation										Regi	ested	Ana	ilvsis	1 800	TEST	CODE	sheet			A1440
Compa	any Name		Project Name:													T		T		1	1000	T.	T	. Silver	<del>'</del> —	100000	Matrix Codes
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City	State	Zip	City		State	Compa	ny Name			AR III	71111	aport	10)			1				1							SO - Soil
Project	Robbinsville, NJ 08691			Windsor	NJ	_												1		1							SL- Sludge SED-Sediment
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	er(s) Name(s)	9-890-9116 Phone #	Project Manage	,													1 1			ĺ	1		1	1	1	1	FB-Field Blank
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		3-414-2100	Raiaei L	Torres, III	Collection			_	_	- 12				d Bottle			1 1				1		1				TB-Trip Blank
Accutest						$\top$	1	1	$\vdash$	1		or pre	Server	a Bonie	m	₩.	1 1										
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JC18608: Chain of Custody

Page 1 of 2

In

# 5.1

# .

Job Number: JO	18608	Cli	ent:		Project:			
Date / Time Received: 4/	19/2016 4	:45:00 PM	Delivery Meth	nod:	Airbill #'s:			
Cooler Temps (Raw Measur Cooler Temps (Correc	,							
Custody Seals Present:	Y or N  V		DC Present:	Y or N 2	Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:	Y V	or N	
Temp criteria achieved:     Cooler temp verification:     Cooler media:     No. Coolers:	<u> </u>	IR Gun ce (Bag)	_		Sample Integrity - Condition  1. Sample recvd within HT:  2. All containers accounted for:  3. Condition of sample:	Y V	or N	
1. Trip Blank present / cooler: 2. Trip Blank listed on COC: 3. Samples preserved propert 4. VOCs headspace free:		or N  V  U	<u>N/A</u> □ □		Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis: 4. Compositing instructions clear: 5. Filtering instructions clear:	Y		N/A
Comments					-			

**SGS Accutest Sample Receipt Summary** 

JC18608: Chain of Custody

Page 2 of 2

# **Internal Sample Tracking Chronicle**

PARS Environmental Services

Job No: JC18608

WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ Project No: 565-84

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
JC18608-1 DEN-01-11	Collected: 19-APR-16 -DW-P	06:10 By: MN	Receiv	ed: 19-APR	-16 By	: AS
JC18608-1	EPA 200.8	20-APR-16 13:17	JO	20-APR-16	JO	PBMS
JC18608-2 DEN-01-11	Collected: 19-APR-16 -DW-F	06:11 By: MN	Receiv	ed: 19-APR	-16 By	: AS
JC18608-2	EPA 200.8	20-APR-16 13:21	JO	20-APR-16	JO	PBMS

Page 1 of 1

# **SGS Accutest Internal Chain of Custody**

**Job Number:** JC18608

**Account:** PARS PARS Environmental Services

Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

**Received:** 04/19/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason				
JC18608-1.1	Secured Storage	Sahara Feliciano	04/20/16 08:28	Retrieve from Storage				
JC18608-1.1	Sahara Feliciano	Secured Staging Area	04/20/16 08:28	Return to Storage				
JC18608-1.1	Secured Staging Area	Jaclyn O'Connor	04/20/16 09:01	Retrieve from Storage				
JC18608-1.1	Jaclyn O'Connor	Secured Storage	04/20/16 14:40	Return to Storage				
JC18608-1.1	Secured Storage	Christopher Hall	04/20/16 15:46	Retrieve from Storage				
JC18608-1.1	Christopher Hall	Secured Staging Area	04/20/16 15:47	Return to Storage				
JC18608-1.1	Secured Staging Area	Christopher Hall	04/20/16 15:47	Retrieve from Storage				
JC18608-1.1	Shirley Grzybowski	Secured Storage	04/23/16 07:21	Return to Storage				
Analyst unavailal	ble for custody transfer.	-		-				
JC18608-2.1	Secured Storage	Sahara Feliciano	04/20/16 08:28	Retrieve from Storage				
JC18608-2.1	Sahara Feliciano	Secured Staging Area	04/20/16 08:28	Return to Storage				
JC18608-2.1	Secured Staging Area	Jaclyn O'Connor	04/20/16 09:01	Retrieve from Storage				
JC18608-2.1	Jaclyn O'Connor	Secured Storage	04/20/16 14:40	Return to Storage				
JC18608-2.1	Secured Storage	Christopher Hall	04/20/16 15:46	Retrieve from Storage				
JC18608-2.1	Christopher Hall	Secured Staging Area	04/20/16 15:47	Return to Storage				
JC18608-2.1	Secured Staging Area	Christopher Hall	04/20/16 15:47	Retrieve from Storage				
JC18608-2.1	Shirley Grzybowski	Secured Storage	04/23/16 07:21	Return to Storage				
Analyst unavailable for custody transfer.								



Section 6

# Metals Analysis

# QC Data Summaries

# Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

#### SGS Accutest Instrument Runlog Inorganics Analyses

### Login Number: JC18608

Account: PARS - PARS Environmental Services
Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

File ID: XB042016W1.CSV Analyst: JO

Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8

	yst: JO meters: Pb		Run ID: MA39225
Time		Dilution PS Factor Recov	Comments
10:13	MA39225-STD1	1	STDA
10:17	MA39225-STD2	1	STDA
10:20	MA39225-STD3	1	STDA
10:23	MA39225-STD4	1	STDB1
10:26	MA39225-STD5	1	STDB
10:30	MA39225-STD6	1	STDC
10:33	MA39225-STD7	1	STDD
10:36	MA39225-STD8	1	STDE
10:39	MA39225-STD9	1	STDF
10:43	MA39225-STD10	1	STDG
10:46	MA39225-STD11	1	STDH
10:49	MA39225-STD12	1	STDI
10:53	MA39225-STD13	1	STDJ
11:02	ZZZZZZ	1	
11:06	MA39225-ICVA1	1	
11:09	MA39225-ICV1	1	60ppb Al.
11:12	MA39225-ICB1	1	
11:16	MA39225-CRI1	1	
11:19	MA39225-CRIA1	1	0.3ppb Be, 1ppb As and Se
11:22	MA39225-CCVA1	1	
11:26	MA39225-CCB1	1	
11:29	MP93240-MB1	1	
11:32	MP93240-B1	1	
11:35	MP93240-S1	1	To reanalysis, FB used as QC
11:39	MP93240-S2	1	To reanalysis, FB used as QC
11:42	JC18558-2	1	(sample used for QC only; not part of login JC18608)
11:45	ZZZZZZ	1	
11:49	ZZZZZZ	1	
11:52	ZZZZZZ	1	
11:55	MA39225-CCVA2	1	
11:59	MA39225-CCB2	1	
12:03	ZZZZZZ	1	
12:06	ZZZZZZ	1	

#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: JC18608

Account: PARS - PARS Environmental Services
Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

File ID: XB042016W1.CSV Analyst: JO

Parameters: Pb

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Date Analyzed: 04/20/16

Run ID: MA39225

Methods: EPA 200.8

Time	Sample Description	Dilution Factor	n PS Recov	Comments
12:10	MP93240-B1	2		Ag
12:13	MP93240-S1	2		Not needed
12:16	MP93240-S2	2		Not needed
12:20	MP93240-S1	1		Ag
12:24	MA39225-CCVA3	1		
12:27	MA39225-CCB3	1		
12:30	MP93239-MB1	1		
12:34	MP93239-B1	1		
12:37	MP93239-S1	1		
12:40	MP93239-S2	1		
12:44	ZZZZZZ	1		
12:47	JC18578-1	1		(sample used for QC only; not part of login JC18608)
12:50	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:57	ZZZZZZ	1		
13:00	MA39225-CCVA4	1		
13:04	MA39225-CCB4	1		
13:07	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:14	ZZZZZZ	1		
13:17	JC18608-1	1		
Last r	JC18608-2 reportable sample MA39225-CCVA5	e/prep for	job JC18	3608

13:28 MA39225-CCB5 1 Last reportable CCB for job JC18608 Refer to raw data for calibration curve and standards.

# Login Number: JC18608

Account: PARS - PARS Environmental Services
Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

File ID: XB042016W1.CSV

Analyst: JO Parameters: Pb Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
10:13	MA39225-STD1	100	100	100	100	100	100	100	100
10:17	MA39225-STD2	100	100	100	100	100	100	100	100
10:20	MA39225-STD3	100	100	100	100	100	100	100	100
10:23	MA39225-STD4	97.136	100.109	99.561	99.894	98.21	99.583	100.206	100.63
10:26	MA39225-STD5	101.693	100.647	101.766	100.965	99.612	100.872	101.65	102.393
10:30	MA39225-STD6	98.284	99.834	101.03	100.644	100.017	100.176	100.852	101.396
10:33	MA39225-STD7	98.599	99.974	100.638	100.73	99.689	99.619	100.899	101.788
10:36	MA39225-STD8	97.958	99.632	100.451	100.08	99.249	100.486	101.413	101.361
10:39	MA39225-STD9	99.138	98.591	99.784	101.28	98.602	99.536	100.539	101.681
10:43	MA39225-STD10	98.083	100.336	100.348	100.016	99.373	100.65	100.264	101.467
10:46	MA39225-STD11	99.312	99.829	100.302	100.779	98.827	100.791	101.614	102.107
10:49	MA39225-STD12	96.135	98.643	99.745	99.27	96.553	98.533	100.237	101.613
10:53	MA39225-STD13	96.667	99.986	101.866	99.976	96.577	99.371	101.404	102.498
11:02	ZZZZZZ	101.15	102.874	102.6	103.465	101.676	101.813	101.364	101.571
11:06	MA39225-ICVA1	99.621	100.65	102.413	102.603	98.268	100.467	101.872	103.022
11:09	MA39225-ICV1	99.284	100.065	100.578	100.934	99.631	100.382	100.699	101.331
11:12	MA39225-ICB1	101.772	101.299	101.574	102.309	100.269	101.212	100.726	101.775
11:16	MA39225-CRI1	103.191	101.487	101.802	102.612	100.562	101.989	102.189	102.51
11:19	MA39225-CRIA1	102.388	100.791	101.076	101.311	101.02	101.674	100.868	101.758
11:22	MA39225-CCVA1	105.243	102.025	102.666	101.204	98.976	100.591	102.794	103.722
11:26	MA39225-CCB1	104.41	100.998	100.111	100.443	100.072	101.211	100.949	102.177
11:29	MP93240-MB1	103.833	102.082	101.447	101.798	100.626	101.429	101.543	102.27
11:32	MP93240-B1	105.038	101.973	101.762	102.449	99.762	101.323	101.722	103.105
11:35	MP93240-S1	No result	s reported	for the e	elements as	ssociated w	ith this i	internal st	andard.
11:39	MP93240-S2	No result	s reported	for the e	elements as	ssociated w	ith this i	internal st	andard.
11:42	JC18558-2	122.105	103.478	102.754	104.284	102.779	103.229	103.53	105.186
11:45	ZZZZZZ	118.515	102.114	102.017	102.763	96.27	101.457	102.957	104.124
11:49	ZZZZZZ	120.827	102.137	102.434	102.788	96.758	101.583	103.919	106.015
11:52	ZZZZZZ	126.237 !	a102.526	102.168	102.932	99.78	104.033	105.656	107.127
11:55	MA39225-CCVA2	110.891	100.431	100.322	100.636	96.85	98.51	101.64	102.81
11:59	MA39225-CCB2	110.071	100.531	99.881	99.991	99.176	99.896	99.77	101.414
12:03	ZZZZZZ	117.916	101.317	100.808	101.629	95.472	99.812	101.712	103.33
12:06	ZZZZZZ	121.735	102.325	101.834	102.631	97.801	102.345	104.783	105.508



# Login Number: JC18608

Account: PARS - PARS Environmental Services
Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

Methods: EPA 200.8

File ID: XB042016W1.CSV

Date Analyzed: 04/20/16 Run ID: MA39225

Analyst: JO Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
12:10	MP93240-B1	108.892	98.815	98.794	99.089	97.406	98.312	98.688	99.524
12:13	MP93240-S1	No result	s reported	for the	elements	associated	with this	internal	standard.
12:16	MP93240-S2	No result	s reported	for the	elements	associated	with this	internal	standard.
12:20	MP93240-S1	No result	s reported	for the	elements	associated	with this	internal	standard.
12:24	MA39225-CCVA3	109.476	97.422	97.657	97.844	94.868	97.472	99.595	100.945
12:27	MA39225-CCB3	106.052	97.307	96.198	96.016	96.516	96.739	97.65	99.734
12:30	MP93239-MB1	107.104	96.636	95.749	95.961	96.2	96.985	97.427	98.175
12:34	MP93239-B1	105.706	97.314	97.781	98.369	95.633	96.475	97.973	99.381
12:37	MP93239-S1	118.238	99.873	99.742	100.837	96.453	99.346	101.996	103.612
12:40	MP93239-S2	117.812	96.894	97.211	98.43	93.906	97.311	100.812	102.342
12:44	ZZZZZZ	110.394	95.257	95.335	96.402	95.165	96.771	97.271	98.386
12:47	JC18578-1	117.767	98.111	97.517	99.116	94.084	96.427	99.447	101.276
12:50	ZZZZZZ	120.903	98.03	98.046	98.192	94.212	98.739	100.707	102.592
12:54	ZZZZZZ	121.069	97.952	98.449	98.978	94.767	98.714	101.634	103.838
12:57	ZZZZZZ	125.345 !	a101.104	99.124	101.001	97.389	101.317	103.868	105.776
13:00	MA39225-CCVA4	111.684	95.019	95.504	95.068	93.41	95.257	98.603	100.406
13:04	MA39225-CCB4	108.561	95.146	93.067	94.484	93.779	95.648	95.668	96.727
13:07	ZZZZZZ	115.934	91.858	90.804	91.386	88.169	91.588	96.387	98.4
13:11	ZZZZZZ	126.404 !	a98.252	99.178	99.658	97.116	100.844	103.898	106.355
13:14	ZZZZZZ	123.8	97.223	98.112	98.421	95.338	99.116	102.1	104.269
13:17	JC18608-1	122.23	98.942	98.354	99.57	95.146	98.735	103.358	104.843
13:21	JC18608-2	122.261	101.136	101.712	101.294	97.456	100.899	103.808	106.488
13:24	MA39225-CCVA5	112.678	99.422	100.03	99.454	97.33	99.18	103.883	104.777
13:28	MA39225-CCB5	108.781	98.619	99.215	99.4	98.215	98.274	99.497	101.455

! = Outside limits.

# LEGEND:

Istd#	Parameter		Limits	
Istd#1	Lithium		60-125	용
Istd#2	Scandium		60-125	용
Istd#3	Germanium	(72-1)	60-125	용
Istd#4	Germanium	(74-1)	60-125	용
Istd#5	Rhodium		60-125	용
Istd#6	Indium		60-125	용
Istd#7	Terbium		60-125	용
Istd#8	Holmium		60-125	용

(a) No samples reported for the elements associated with this internal standard.



# Login Number: JC18608

Account: PARS - PARS Environmental Services
Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

Methods: EPA 200.8

File ID: XB042016W1.CSV Analyst: JO

Parameters: Pb

Date Analyzed: 04/20/16

Run ID: MA39225

	Sample	
Time		Istd#9
10:13	MA39225-STD1	100
10:17	MA39225-STD2	100
10:20	MA39225-STD3	100
10:23	MA39225-STD4	100.54
10:26	MA39225-STD5	101.62
10:30	MA39225-STD6	101.19
10:33	MA39225-STD7	102.137
10:36	MA39225-STD8	102.603
10:39	MA39225-STD9	102.713
10:43	MA39225-STD10	100.454
10:46	MA39225-STD11	101.155
10:49	MA39225-STD12	99.869
10:53	MA39225-STD13	99.487
11:02	ZZZZZZ	100.847
11:06	MA39225-ICVA1	102.055
11:09	MA39225-ICV1	101.34
11:12	MA39225-ICB1	101.642
11:16	MA39225-CRI1	102.242
11:19	MA39225-CRIA1	102.023
11:22	MA39225-CCVA1	101.517
11:26	MA39225-CCB1	102.023
11:29	MP93240-MB1	101.889
11:32	MP93240-B1	102.405
11:35	MP93240-S1	No results reported for the elements associated with this internal standard.
11:39	MP93240-S2	No results reported for the elements associated with this internal standard.
11:42	JC18558-2	105.996
11:45	ZZZZZZ	101.353
11:49	ZZZZZZ	103.168
11:52	ZZZZZZ	110.851
11:55	MA39225-CCVA2	101.56
11:59	MA39225-CCB2	101.351
12:03	ZZZZZZ	99.33
12:06	ZZZZZZ	101.898



# Login Number: JC18608

Account: PARS - PARS Environmental Services
Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

Methods: EPA 200.8

File ID: XB042016W1.CSV Date Analyzed: 04/20/16 Run ID: MA39225

Analyst: JO Parameters: Pb

Time	Sample Description	Istd#9
12:10	MP93240-B1	101.109
12:13	MP93240-S1	No results reported for the elements associated with this internal standard.
12:16	MP93240-S2	No results reported for the elements associated with this internal standard.
12:20	MP93240-S1	No results reported for the elements associated with this internal standard.
12:24	MA39225-CCVA3	99.488
12:27	MA39225-CCB3	99.198
12:30	MP93239-MB1	98.782
12:34	MP93239-B1	100.245
12:37	MP93239-S1	101.457
12:40	MP93239-S2	100.752
12:44	ZZZZZZ	98.931
12:47	JC18578-1	99.818
12:50	ZZZZZZ	101.232
12:54	ZZZZZZ	102.381
12:57	ZZZZZZ	104.805
13:00	MA39225-CCVA4	100.809
13:04	MA39225-CCB4	97.436
13:07	ZZZZZZ	98.517
13:11	ZZZZZZ	105.093
13:14	ZZZZZZ	103.696
13:17	JC18608-1	102.479
13:21	JC18608-2	103.51
13:24	MA39225-CCVA5	103.826
13:28	MA39225-CCB5	102.352
! = Ou	tside limits.	
LEGEND	: Parameter	Limits

 Istd#
 Parameter
 Limits

 Istd#9
 Bismuth
 60-125 %

# BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

# Login Number: JC18608

# Account: PARS - PARS Environmental Services Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

ÇO EIMIOD IO								) / ±		
Time: Sample ID:			11:12 ICB1		11:26 CCB1		11:59 CCB2		12:27 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	50	.1								
Antimony	2.0	.12	anr							
Arsenic	1.0	.38	anr							
Barium	1.0	.011								
Beryllium	0.30	.004	anr							
Boron	50	3.2								
Cadmium	0.50	.008	anr							
Calcium	250	2.7								
Chromium	4.0	.019								
Cobalt	0.50	.003								
Copper	4.0	.02								
Iron	50	1.1								
Lead	0.50	.009	0.0059	<0.50	0.018	<0.50	0.027	<0.50	0.042	<0.50
Magnesium	250	.17								
Manganese	1.0	.019								
Molybdenum	1.0	.02								
Nickel	4.0	.028								
Potassium	250	2								
Selenium	1.0	. 29	anr							
Silver	2.0	.019	anr							
Sodium	250	3.9								
Strontium	1.0	.009								
Thallium	0.50	.016	anr							
Tin	1.0	.039								
Titanium	1.0	.034								
Vanadium	4.0	.11								
Zinc	10	.29								

(\*) Outside of QC limits (anr) Analyte not requested

SGS 21 of 30 ACCUTEST

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

#### Login Number: JC18608

Account: PARS - PARS Environmental Services
Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

File ID: XB042016W1.CSV Date Analyzed: 04/20/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA39225 Units: ug/1

Time: Sample ID: Metal RL IDL raw final raw final raw final RL IDL raw final raw final raw final RL IDL raw final raw final raw final RL IDL raw final raw final RL IDL raw fina	QC 21100 10.	7410 - 16	_		11011		
Aluminum 50 .1 Antimony 2.0 .12 anr Arsenic 1.0 .38 anr Barium 1.0 .011 Beryllium 0.30 .004 anr Boron 50 3.2 Cadmium 0.50 .008 anr Calcium 250 2.7 Chromium 4.0 .019 Cobalt 0.50 .003 Copper 4.0 .02 Iron 50 1.1 Lead 0.50 .009 0.036 <0.50 0.037 <0.50 Magnesium 250 .17 Manganese 1.0 .019 Molybdenum 1.0 .02 Nickel 4.0 .028 Potassium 250 2 Selenium 1.0 .29 anr Silver 2.0 .019 anr Sodium 250 3.9 Strontium 1.0 .009 Thallium 0.50 .016 anr Tin 1.0 .039 Titanium 1.0 .034 Vanadium 4.0 .11	Sample ID:			CCB4	I.,	CCB5	l
Antimony 2.0 .12 anr Arsenic 1.0 .38 anr  Barium 1.0 .011 Beryllium 0.30 .004 anr Boron 50 3.2 Cadmium 0.50 .008 anr Calcium 250 2.7 Chromium 4.0 .019 Cobalt 0.50 .003 Copper 4.0 .02 Iron 50 1.1 Lead 0.50 .009 0.036 <0.50 0.037 <0.50 Magnesium 250 2.17 Manganese 1.0 .019 Molybdenum 1.0 .02 Nickel 4.0 .028 Potassium 250 2 Selenium 1.0 .29 anr Silver 2.0 .019 anr Sodium 250 3.9 Strontium 1.0 .009 Thallium 0.50 .016 anr Tin 1.0 .039 Titanium 1.0 .034 Vanadium 4.0 .011				raw	final	raw	final
Arsenic 1.0 .38 anr Barium 1.0 .011 Beryllium 0.30 .004 anr Boron 50 3.2 Cadmium 0.50 .008 anr Calcium 250 2.7 Chromium 4.0 .019 Cobalt 0.50 .003 Copper 4.0 .02 Iron 50 1.1 Lead 0.50 .009 0.036 <0.50 0.037 <0.50 Magnesium 250 .17 Manganese 1.0 .019 Molybdenum 1.0 .02 Nickel 4.0 .028 Potassium 250 2 Selenium 1.0 .29 anr Silver 2.0 .019 anr Sodium 250 3.9 Strontium 1.0 .009 Thallium 0.50 .016 anr Tin 1.0 .039 Titanium 1.0 .034 Vanadium 4.0 .011	Aluminum	50	.1				
Barium 1.0 .011 Beryllium 0.30 .004 anr  Boron 50 3.2 Cadmium 0.50 .008 anr Calcium 250 2.7 Chromium 4.0 .019 Cobalt 0.50 .003 Copper 4.0 .02 Iron 50 1.1 Lead 0.50 .009 0.036 <0.50 0.037 <0.50 Magnesium 250 .17 Manganese 1.0 .019 Molybdenum 1.0 .02 Nickel 4.0 .028 Potassium 250 2 Selenium 1.0 .29 anr Silver 2.0 .019 anr Sodium 250 3.9 Strontium 1.0 .009 Thallium 0.50 .016 anr Tin 1.0 .034 Vanadium 4.0 .11	Antimony	2.0	.12	anr			
Beryllium         0.30         .004         anr           Boron         50         3.2           Cadmium         0.50         .008         anr           Calcium         250         2.7           Chromium         4.0         .019           Cobalt         0.50         .003           Copper         4.0         .02           Iron         50         1.1           Lead         0.50         .009         0.036           Magnesium         250         .17           Manganese         1.0         .019           Molybdenum         1.0         .02           Nickel         4.0         .028           Potassium         250         2           Selenium         1.0         .29         anr           Silver         2.0         .019         anr           Sodium         250         3.9           Strontium         1.0         .009           Thallium         0.50         .016         anr           Titanium         1.0         .034           Vanadium         4.0         .11	Arsenic	1.0	.38	anr			
Boron       50       3.2         Cadmium       0.50       .008       anr         Calcium       250       2.7         Chromium       4.0       .019         Cobalt       0.50       .003         Copper       4.0       .02         Iron       50       1.1         Lead       0.50       .009       0.036       <0.50	Barium	1.0	.011				
Cadmium 0.50 .008 anr  Calcium 250 2.7  Chromium 4.0 .019  Cobalt 0.50 .003  Copper 4.0 .02  Iron 50 1.1  Lead 0.50 .009 0.036 <0.50 0.037 <0.50  Magnesium 250 .17  Manganese 1.0 .019  Molybdenum 1.0 .02  Nickel 4.0 .028  Potassium 250 2  Selenium 1.0 .29 anr  Silver 2.0 .019 anr  Sodium 250 3.9  Strontium 1.0 .009  Thallium 0.50 .016 anr  Tin 1.0 .034  Vanadium 4.0 .11	Beryllium	0.30	.004	anr			
Calcium 250 2.7 Chromium 4.0 .019 Cobalt 0.50 .003 Copper 4.0 .02 Iron 50 1.1 Lead 0.50 .009 0.036 <0.50 0.037 <0.50 Magnesium 250 .17 Manganese 1.0 .019 Molybdenum 1.0 .02 Nickel 4.0 .028 Potassium 250 2 Selenium 1.0 .29 anr Silver 2.0 .019 anr Sodium 250 3.9 Strontium 1.0 .009 Thallium 0.50 .016 anr Tin 1.0 .039 Titanium 1.0 .034 Vanadium 4.0 .11	Boron	50	3.2				
Chromium 4.0 .019 Cobalt 0.50 .003 Copper 4.0 .02 Iron 50 1.1 Lead 0.50 .009 0.036 <0.50 0.037 <0.50  Magnesium 250 .17  Manganese 1.0 .019 Molybdenum 1.0 .02 Nickel 4.0 .028 Potassium 250 2 Selenium 1.0 .29 anr Silver 2.0 .019 anr Sodium 250 3.9 Strontium 1.0 .009 Thallium 0.50 .016 anr Tin 1.0 .039 Titanium 1.0 .034 Vanadium 4.0 .11	Cadmium	0.50	.008	anr			
Cobalt       0.50       .003         Copper       4.0       .02         Iron       50       1.1         Lead       0.50       .009       0.036       <0.50	Calcium	250	2.7				
Copper       4.0       .02         Iron       50       1.1         Lead       0.50       .009       0.036       <0.50	Chromium	4.0	.019				
Iron       50       1.1         Lead       0.50       .009       0.036       <0.50	Cobalt	0.50	.003				
Lead       0.50       .009       0.036       <0.50	Copper	4.0	.02				
Magnesium       250       .17         Manganese       1.0       .019         Molybdenum       1.0       .02         Nickel       4.0       .028         Potassium       250       2         Selenium       1.0       .29       anr         Silver       2.0       .019       anr         Sodium       250       3.9         Strontium       1.0       .009         Thallium       0.50       .016       anr         Tin       1.0       .039         Titanium       1.0       .034         Vanadium       4.0       .11	Iron	50	1.1				
Manganese       1.0       .019         Molybdenum       1.0       .02         Nickel       4.0       .028         Potassium       250       2         Selenium       1.0       .29       anr         Silver       2.0       .019       anr         Sodium       250       3.9         Strontium       1.0       .009         Thallium       0.50       .016       anr         Tin       1.0       .039         Titanium       1.0       .034         Vanadium       4.0       .11	Lead	0.50	.009	0.036	<0.50	0.037	<0.50
Molybdenum       1.0       .02         Nickel       4.0       .028         Potassium       250       2         Selenium       1.0       .29       anr         Silver       2.0       .019       anr         Sodium       250       3.9         Strontium       1.0       .009         Thallium       0.50       .016       anr         Tin       1.0       .039         Titanium       1.0       .034         Vanadium       4.0       .11	Magnesium	250	.17				
Nickel       4.0       .028         Potassium       250       2         Selenium       1.0       .29       anr         Silver       2.0       .019       anr         Sodium       250       3.9         Strontium       1.0       .009         Thallium       0.50       .016       anr         Tin       1.0       .039         Titanium       1.0       .034         Vanadium       4.0       .11	Manganese	1.0	.019				
Potassium       250       2         Selenium       1.0       .29       anr         Silver       2.0       .019       anr         Sodium       250       3.9         Strontium       1.0       .009         Thallium       0.50       .016       anr         Tin       1.0       .039         Titanium       1.0       .034         Vanadium       4.0       .11	Molybdenum	1.0	.02				
Selenium       1.0       .29       anr         Silver       2.0       .019       anr         Sodium       250       3.9         Strontium       1.0       .009         Thallium       0.50       .016       anr         Tin       1.0       .039         Titanium       1.0       .034         Vanadium       4.0       .11	Nickel	4.0	.028				
Silver       2.0       .019       anr         Sodium       250       3.9         Strontium       1.0       .009         Thallium       0.50       .016       anr         Tin       1.0       .039         Titanium       1.0       .034         Vanadium       4.0       .11	Potassium	250	2				
Sodium       250       3.9         Strontium       1.0       .009         Thallium       0.50       .016       anr         Tin       1.0       .039         Titanium       1.0       .034         Vanadium       4.0       .11	Selenium	1.0	. 29	anr			
Strontium       1.0       .009         Thallium       0.50       .016       anr         Tin       1.0       .039         Titanium       1.0       .034         Vanadium       4.0       .11	Silver	2.0	.019	anr			
Thallium 0.50 .016 anr  Tin 1.0 .039  Titanium 1.0 .034  Vanadium 4.0 .11	Sodium	250	3.9				
Tin 1.0 .039 Titanium 1.0 .034 Vanadium 4.0 .11	Strontium	1.0	.009				
Titanium 1.0 .034  Vanadium 4.0 .11	Thallium	0.50	.016	anr			
Vanadium 4.0 .11	Tin	1.0	.039				
	Titanium	1.0	.034				
	Vanadium	4.0	.11				
	Zinc						

(\*) Outside of QC limits (anr) Analyte not requested

SGS 22 of 30 ACCUTEST

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: JC18608

Account: PARS - PARS Environmental Services
Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	ICVA True	11:06 ICVA1 Results	% Rec	ICV True	11:09 ICV1 Results	% Rec	CCVA True	11:22 CCVA1 Results	% Rec	
Aluminum										
Antimony	anr									
Arsenic	anr									
Barium										
Beryllium	anr									
Boron										
Cadmium	anr									
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	60	57.8	96.3				50	50.6	101.2	
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium	anr									
Silver	anr									
Sodium										
Strontium										
Thallium	anr									
Tin										
Titanium										
Vanadium										
Zinc										

(\*) Outside of QC limits (anr) Analyte not requested

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: JC18608

Account: PARS - PARS Environmental Services
Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	CCVA True	11:55 CCVA2 Results	% Rec	CCVA True	12:24 CCVA3 Results	% Rec	CCVA True	13:00 CCVA4 Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium									
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	50	47.6	95.2	50	47.7	95.4	50	47.2	94.4
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc									

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: JC18608

Account: PARS - PARS Environmental Services
Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8 Units: ug/l

San Metal	Time: mple ID:	CCVA True	13:24 CCVA5 Results	% Rec
Alumir	num			
Antimo	ony	anr		
Arseni	Lc	anr		
Barium	n			
Beryll	Lium	anr		
Boron				
Cadmiu	ım	anr		
Calci	ım			
Chromi	Lum			
Cobalt	=			
Copper	£			
Iron				
Lead		50	47.5	95.0
Magnes	sium			
Mangar	nese			
Molybo	denum			
Nickel	L			
Potass	sium			
Seleni	Lum	anr		
Silver	£	anr		
Sodium	n			
Stront	ium			
Thalli	Lum	anr		
Tin				
Titani	Lum			
Vanadi	Lum			
Zinc				

(\*) Outside of QC limits (anr) Analyte not requested

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

#### Login Number: JC18608

Account: PARS - PARS Environmental Services
Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: 70 to 130 % Recovery Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	CRI True	CRIA True	11:16 CRI1 Results	% Rec	11:19 CRIA1 Results	% Rec
Aluminum	25	25				
Antimony	2.0	0.25	anr			
Arsenic	0.50	1.0				
Barium	1.0	0.50				
Beryllium	0.50	0.30	anr			
Boron	25	2.5				
Cadmium	0.50	0.25	anr			
Calcium	250	125				
Chromium	1.0	2.0				
Cobalt	0.50	0.25				
Copper	2.0	2.0				
Iron	25	25				
Lead	0.50	0.25	0.50	100.0		
Magnesium	250	125				
Manganese	0.50	0.25				
Molybdenum	1.0	0.50				
Nickel	1.0	2.0				
Potassium	250	125				
Selenium	0.50	1.0	anr			
Silver	0.50	1.0	anr			
Sodium	250	125				
Strontium	5.0	0.50				
Thallium	0.50	0.25	anr			
Tin	5.0	0.50				
Titanium	1.0	0.50				
Vanadium	1.0	2.0				
Zinc	5.0	2.0				

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

#### Login Number: JC18608

Account: PARS - PARS Environmental Services
Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

QC Batch ID: MP93239 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/20/16

					,,
Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.050	.0001	.00074		
Antimony	0.0020	.00012	.00021		
Arsenic	0.0010	.00038	.00081		
Barium	0.0010	.000011	.000044		
Beryllium	0.00030	.000004	.000079		
Boron	0.050	.0032			
Cadmium	0.00050	.000008	.000041		
Calcium	0.25	.0027	.0075		
Chromium	0.0040	.000019	.00018		
Cobalt	0.00050	.000003	.000014		
Copper	0.0040	.00002	.0012		
Iron	0.050	.0011	.009		
Lead	0.00050	.000009	.000018	0.000033	<0.00050
Magnesium	0.25	.00017	.00051		
Manganese	0.0010	.000019	.00006		
Molybdenum	0.0010	.00002	.000059		
Nickel	0.0040	.000028	.00023		
Potassium	0.25	.002	.015		
Selenium	0.0010	.00029	.00051		
Silver	0.0020	.000019	.000022		
Sodium	0.25	.0039	.015		
Strontium	0.0010	.000009	.000014		
Thallium	0.00050	.000016	.0001		
Tin	0.0010	.000039	.000043		
Titanium	0.0010	.000034	.00038		
Vanadium	0.0040	.00011	.00082		
Zinc	0.010	.00029	.00061		

Associated samples MP93239: JC18608-1, JC18608-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

#### Login Number: JC18608 Account: PARS - PARS Environmental Services

Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

QC Batch ID: MP93239 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

04/20/16 Prep Date:

Metal	JC18578-1 Original MS	Spikelot MPXDW7	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.015 0.11	0.10	95.0	70-130
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP93239: JC18608-1, JC18608-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (N) Matrix Spike Rec. outside of QC limits (anr) Analyte not requested



#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

#### Login Number: JC18608 Account: PARS - PARS Environmental Services

Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

QC Batch ID: MP93239 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/20/16

Metal	JC18578- Original		Spikelot MPXDW7	% Rec	MSD RPD	QC Limit	
Aluminum							
Antimony							
Arsenic							
Barium							
Beryllium							
Boron							
Cadmium							
Calcium							
Chromium							
Cobalt							
Copper							
Iron							
Lead	0.015	0.11	0.10	95.0	0.0	20	
Magnesium							
Manganese							
Molybdenum							
Nickel							
Potassium							
Selenium							
Silver							
Sodium							
Strontium							
Thallium							
Tin							
Titanium							
Vanadium							
Zinc							

Associated samples MP93239: JC18608-1, JC18608-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (N) Matrix Spike Rec. outside of QC limits (anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

#### Login Number: JC18608 Account: PARS - PARS Environmental Services

Project: WWP Schools-Dutch Neck, 321 Village Road East, West Windsor, NJ

QC Batch ID: MP93239 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date: 04/20/16

Metal	BSP Result	Spikelot MPXDW7	% Rec	QC Limits
Aluminum		_		
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.092	0.10	92.0	85-115
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP93239: JC18608-1, JC18608-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested





## LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT DUTCH NECK ELEMENTARY SCHOOL APRIL 2016

### APPENDIX B LABORATORY CERTIFICATION

# State of New Jersey Department of Environmental Protection Certifies That SGS Accutest Inc. – Wheat Ridge

Laboratory Certification ID # CO007

is hereby approved as a

Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2016



Mille M. Pott p get

Joseph F. Aiello Assistant Director

NJDEP is a NELAP Recognized Accreditation Body



# State of New Jersey Department of Environmental Protection Certifies That SGS Accutest Inc. - Dayton Laboratory Certification ID # 12129

is hereby approved as a

#### Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2016



Muhile M. Pott pr 324

Joseph F. Aiello Assistant Director



NJDEP is a NELAP Recognized Accreditation Body



### LEAD IN DRINKING WATER TESTING REPORT

WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT THOMAS GROVER MIDDLE SCHOOL 10 SOUTHFIELD ROAD WEST WINDSOR, NEW JERSEY 08550

#### PREPARED FOR:

West Windsor-Plainsboro Regional School District 505 Village Road West PO Box 505 West Windsor, New Jersey 08550

#### PREPARED BY:

PARS Environmental, Inc. 500 Horizon Drive, Suite 540 Robbinsville, New Jersey 08691

Tel: 609-890-7277 Fax: 609-890-9116

PARS Project No. 565-84

**April 2016** 



LABORATORY CERTIFICATION

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT THOMAS GROVER MIDDLE SCHOOL APRIL 2016

#### **PARS**

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**PARS** 

#### **EXECUTIVE SUMMARY**

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Thomas Grover Middle School (TGMS). PARS conducted the lead in drinking water testing on March 30, 2016 and April 20, 2016. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the United States Environmental Protection Agency (USEPA) 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (USEPA 3Ts). PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

#### **FINDINGS**

The USEPA National Primary Drinking Water Regulations requires that immediate action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 milligrams per liter (mg/l). Exceedance of the 0.015 mg/l action level was identified in one sample in the TGMS. A total of 17 water samples were collected and analyzed. Laboratory analysis revealed that the room A233 classroom faucet was above the action level of 0.015 mg/l. The room A233 classroom faucet was initially sampled on March 30, 2016, and re-sampled on April 20, 2016. The lead levels decreased from 0.025 mg/l to 0.011 mg/l in the primary First Draw sample collected. The lead levels further decreased to 0.007 mg/l in the 30 Second Flush sample collected. The 0.015 mg/l action level was not exceeded in the re-sampling of the room A233 classroom faucet.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic flushing of the school taps and testing per state and federal regulations.



**PARS** 

#### 1.0 INTRODUCTION

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Thomas Grover Middle School (TGMS). The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the *USEPA 3Ts*. PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

Sampling methodology is described in Section 2.0, the Lead in Drinking Water Findings are discussed in Section 3.0, and the Conclusions and Recommendations are presented in Section 4.0. A list of the sample locations and results are provided in **Table 1**. The Laboratory Analytical Report and Laboratory NELAC Certification are provided in **Appendix A** and **B**, respectively.

This report is intended for the sole use of WWP. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations, is at risk of said user.



**PARS** 

#### 2.0 LEAD IN DRINKING WATER SAMPLING

PARS conducted lead in drinking water testing at the TGMS on March 30, 2016 and April 20, 2016. The lead in drinking water sampling was conducted by Christa Casciolini, Melissa Konieczny, and Rafael Torres of PARS.

PARS performed lead in drinking water testing at a total of seven (7) drinking water fountains (bubbler and cooler units) and eight (8) faucets in the nurse's office, kitchen, teacher's lounge, and classroom locations in the TGMS.

All samples were collected following the USEPA First Draw sampling protocol. The First Draw sample collection occurred in the morning prior to the facility opening and before any water was drawn in the building, including toilet flushing. The water was unused for six (6) to eight (8) hours prior to collection. Arrangements were made to sample the water outlets prior to the arrival of teachers and students.

The samples were placed in pre-preserved plastic bottles and submitted for laboratory analysis to SGS Accutest for two-week turnaround. SGS Accutest is a New Jersey Department of Environmental Protection (NJDEP) certified laboratory for lead in drinking water (NELAC #CO007 and #12129). All samples were analyzed using USEPA Method 200.8 for the determination of trace elements in waters and wastes by inductively coupled plasma – mass spectrometry (ICP-MS). Chain-of-custody protocols were followed.



**PARS** 

#### 3.0 LEAD IN DRINKING WATER FINDINGS

Exceedance of the 0.015 mg/l action level was identified in one sample in the TGMS. A total of 17 water samples were collected and analyzed. Laboratory analysis revealed that the room A233 classroom faucet was above the action level of 0.015 mg/l. The room A233 classroom faucet was initially sampled on March 30, 2016, and re-sampled on April 20, 2016. The lead levels decreased from 0.025 mg/l to 0.011 mg/l in the primary First Draw sample collected. The lead levels further decreased to 0.007 mg/l in the 30 Second Flush sample collected. The 0.015 mg/l action level was not exceeded in the re-sampling of the room A233 classroom faucet.

Lead in drinking water tabulated results for the TGMS are provided in **Table 1**. The laboratory analytical report is included in **Appendix A.** The laboratory certification is included in **Appendix B**.

**PARS** 

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

A total of seven (7) drinking water fountains (bubbler and cooler units) and eight (8) faucets in the nurse's office, kitchen, teacher's lounge, and classroom locations were tested in the TGMS. The USEPA recommends that action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 mg/l. Exceedance of the 0.015 mg/l action level was identified in one sample in the TGMS. A total of 17 water samples were collected and analyzed. Laboratory analysis revealed that the room A233 classroom faucet was above the action level of 0.015 mg/l. The room A233 classroom faucet was initially sampled on March 30, 2016, and resampled on April 20, 2016. The lead levels decreased from 0.025 mg/l to 0.011 mg/l in the primary First Draw sample collected. The lead levels further decreased to 0.007 mg/l in the 30 Second Flush sample collected. The 0.015 mg/l action level was not exceeded in the re-sampling of the room A233 classroom faucet.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic flushing of the school taps and testing per state and federal regulations.

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PARS appreciates the opportunity to assist West Windsor-Plainsboro Regional School District with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

PARS ENVIRONMENTAL, INC.

Christa M. Casciolini

**Project Geologist** 

Margaret Halasnik

Principal Industrial Hygienist

Nargaret Halasii



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## LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT THOMAS GROVER MIDDLE SCHOOL APRIL 2016

### TABLE 1 DRINKING WATER RESULTS TABLE

#### TABLE 1

### LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT THOMAS GROVER MIDDLE SCHOOL

APRIL 2016

All samples are primary (first draw) samples. Except for one (1) 30 second flush sample collected on 4/20/16 during re-sampling of the room A233 classroom faucet. All faucets sampled are cold water, unless noted.

EPA Action limit = 0.015 milligrams per liter (mg/l)

School: Thomas Grover Middle School
Sampling Date: 3/30/2016

Exceeds EPA Action Limit (>0.015 mg/l)

< 0.00050

mg/l

Hit = result > 0.00050 detection limit											
03/30/16 Initial Sampling	_										
Accutest Mountain States											4/15/2016 12:18
Job Number:	D81293										
Account:	PARS Environn	nental Services									
Project:	WWP Regional	, West Windsor-Plains	boro, NJ								
Project Number:	Grover Middle	School									
	•									Legend:	Hit
	_										
Client Sample ID:		TGMS-01-NWR-		TGMS-01-C130-WC	TGMS-01-KIT-KC-		TGMS-01-A157-EC-		TGMS-01-	TGMS-01-A134-CF-	TGMS-01-A133-CF-
•		DW-P	P	P	P	P	P	P	A122_A120-WC-P	P	P
Lab Sample ID:		D81293-1	D81293-2	D81293-3	D81293-4	D81293-5	D81293-6	D81293-7	D81293-8	D81293-9	D81293-10
Date Sampled:		3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis											
Lead	I /I	0.00076	< 0.00050	< 0.00050	< 0.00050	0.00091	0.0011	< 0.00050	< 0.00050	0.0013	0.0018
Lead	mg/l	0.00076	<0.00030	<0.00030	<0.00030	0.00091	0.0011	<0.00030	<0.00030	0.0013	0.0018
Client Sample ID:		TGMS-01- E143_E142-WC-P	TGMS-01-E102-CF-P	TGMS-02-A211-CF-P	TGMS-02- A222_A219-WC-P	TGMS-02-A233-CF-P					
Lab Sample ID:		D81293-11	D81293-12	D81293-13	D81293-14	D81293-15					
Date Sampled:		3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016					
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water					
Metals Analysis											

< 0.00050

0.00068

#### TABLE 1

#### LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT THOMAS GROVER MIDDLE SCHOOL

APRIL 2016

All samples are primary (first draw) samples. Except for one (1) 30 second flush sample collected on 4/20/16 during re-sampling of the room A233 classroom faucet.

All faucets sampled are cold water, unless noted.

EPA Action limit = 0.015 milligrams per liter (mg/l)

School:	Thomas Grover	Middle School							
Sampling Date:	4/20/2016	Middle School							
Exceeds EPA Action Limit ( > 0.015 mg/l)	1/20/2010								
Hit = result > 0.00050 detection limit									
04/20/16 Resampling									
Accutest New Jersey		Apr 26, 2016 13:45 pm							
Job Number:	JC18920								
Account:	PARS Environn	nental Services							
Project:	WWP Schools-O Windsor, NJ	WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ							
Project Number:	565-84	565-84							
		Legend:	Hit						
Client Sample ID:		TGMS-02-A233-CF-P	TGMS-02-A233-CF- F						
Lab Sample ID:		JC18920-1	JC18920-2						
Date Sampled:		4/20/2016	4/20/2016						
Matrix:		Drinking Water	Drinking Water						
Metals Analysis									
Lead	mg/l	0.011	0.007						

TL = Teacher's lounge TP = Teacher's prep room PLR = Pool Locker room

School-Floor-Room-Outlet-Sample Type Client Sample ID Format: Sample Type: Floor: Room: Outlet: 01 = First floor### = Room number ###  $BF = Bathroom \ faucet$ P = Primary (first draw) sample 02 = Second floor ###-### = Sample between room number ### and room # CF = Classroom faucet F = Flush sample H### = Hallway by room number ### DW= Drinking water bubbler BL = Boy's locker room EC = Home economics room, cold CAF = Cafeteria KC = Kitchen faucet, cold FR = Faculty room LC = Lounge faucet, cold NS = Nurse's office sink GL = Girl's locker room WC = Water cooler (chiller unit) KIT = Kitchen MGYM = Main gym TF or TS = Teacher's faucet or Teacher's sink MO = Main office NUR = Nurse's office  $SGYM = Small \ gym$ TGL = Team girl's locker room





### APPENDIX A LABORATORY ANALYTICAL REPORTS



### ACCUTEST Mountain States

04/14/16

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Automated Report

#### Technical Report for

#### **PARS** Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ

**TGMS** 

SGS Accutest Job Number: D81293

Sampling Date: 03/30/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 ccasciolini@ParsEnviro.com

ATTN: Crista Casciolini

Total number of pages in report: 51



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman Laboratory Director

Seed walk

Client Service contact: Cristina Araujo 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY

CO (CO00049), EPA 515.4 Provisional

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Test results relate only to samples analyzed.

SGS

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#### **Sample Summary**

Job No:

D81293

PARS Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ Project No: TGMS

C1-	C-II4- J				N	•	Client
Sample Number	Collected Date	Time 1	Ву	Received	Matri Code		Sample ID
D81293-1	03/30/16	06:41	CC	03/31/16	DW	Drinking Water	TGMS-01-NWR-DW-P
D81293-2	03/30/16	06:51	CC	03/31/16	DW	Drinking Water	TGMS-01-C148-WC-P
D81293-3	03/30/16	06:58	CC	03/31/16	DW	Drinking Water	TGMS-01-C130-WC-P
D81293-4	03/30/16	07:05	CC	03/31/16	DW	Drinking Water	TGMS-01-KIT-KC-P
D81293-5	03/30/16	07:11	CC	03/31/16	DW	Drinking Water	TGMS-01-C106-KC-P
D81293-6	03/30/16	07:18	CC	03/31/16	DW	Drinking Water	TGMS-01-A157-EC-P
D81293-7	03/30/16	07:29	CC	03/31/16	DW	Drinking Water	TGMS-01-A113-CF-P
D81293-8	03/30/16	07:35	CC	03/31/16	DW	Drinking Water	TGMS-01-A122_A120-WC-P
D81293-9	03/30/16	07:39	CC	03/31/16	DW	Drinking Water	TGMS-01-A134-CF-P
D81293-10	03/30/16	07:46	CC	03/31/16	DW	Drinking Water	TGMS-01-A133-CF-P
D81293-11	03/30/16	07:51	CC	03/31/16	DW	Drinking Water	TGMS-01-E143_E142-WC-P
D81293-12	03/30/16	07:54	CC	03/31/16	DW	Drinking Water	TGMS-01-E102-CF-P
D81293-13	03/30/16	08:01	CC	03/31/16	DW	Drinking Water	TGMS-02-A211-CF-P



### Sample Summary (continued)

PARS Environmental Services

Job No: D81293

WWP Regional, West Windsor-Plainsboro, NJ Project No: TGMS

Sample	Collected			Matr	rix	Client
Number	Date	Time By	Received	Code	Type	Sample ID
D81293-14	03/30/16	08:06 CC	03/31/16	DW	Drinking Water	TGMS-02-A222_A219-WC-P
D81293-15	03/30/16	08:09 CC	03/31/16	DW	Drinking Water	TGMS-02-A233-CF-P

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No D81293

Site: WWP Regional, West Windsor-Plainsboro, NJ Report Date 4/14/2016 3:54:29 PM

On 03/31/2016, 15 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 1.9 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D81293 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

#### Metals By Method EPA 200.8

Matrix: DW Batch ID: MP18449

- If required based on the turbidity results, all samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81293-1MS, D81293-1MSD were used as the QC samples for the metals analysis.

Matrix: DW Batch ID: MP18450

- If required based on the turbidity results, all samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81293-6MS, D81293-6MSD were used as the QC samples for the metals analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.



**Summary of Hits** 

Job Number: D81293

**Account:** PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/30/16

D81293-11

No hits reported in this sample.

TGMS-01-E143\_E142-WC-P

Lab Sample ID Client Sample ID Result/ RL Method Analyte Qual **MDL** Units D81293-1 TGMS-01-NWR-DW-P 0.00076 0.00050 Lead mg/l EPA 200.8 D81293-2 TGMS-01-C148-WC-P No hits reported in this sample. D81293-3 **TGMS-01-C130-WC-P** No hits reported in this sample. D81293-4 TGMS-01-KIT-KC-P No hits reported in this sample. D81293-5 TGMS-01-C106-KC-P 0.00091 0.00050Lead mg/l EPA 200.8 D81293-6 TGMS-01-A157-EC-P 0.00050 Lead 0.0011 EPA 200.8 mg/1D81293-7 **TGMS-01-A113-CF-P** No hits reported in this sample. D81293-8 TGMS-01-A122\_A120-WC-P No hits reported in this sample. D81293-9 TGMS-01-A134-CF-P 0.0013 0.00050 EPA 200.8 Lead mg/l D81293-10 TGMS-01-A133-CF-P 0.0018 Lead 0.00050mg/l EPA 200.8 **Summary of Hits Job Number:** D81293

Account: PARS Environmental Services

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

03/30/16 **Collected:** 

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method			
D81293-12	TGMS-01-E102-CF-P								
Lead		0.0017	0.00050		mg/l	EPA 200.8			
D81293-13	TGMS-02-A211-CF-P								
Lead		0.00068	0.00050		mg/l	EPA 200.8			
D81293-14	TGMS-02-A222_A219-WC-P								
No hits reported in this sample.									
D81293-15	TGMS-02-A233-CF-P								
Lead		0.025	0.00050		mg/l	EPA 200.8			



#### Section 4

Sample Results	
Report of Analysis	
1	

#### 4

#### **Report of Analysis**

Client Sample ID: TGMS-01-NWR-DW-P

Lab Sample ID:D81293-1Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.00076	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18449

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: TGMS-01-C148-WC-P

Lab Sample ID: D81293-2 **Date Sampled:** 03/30/16 Matrix: **Date Received:** 03/31/16 DW - Drinking Water Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209 (2) Prep QC Batch: MP18449

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: TGMS-01-C130-WC-P

Lab Sample ID:D81293-3Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18449

RL = Reporting Limit

#### **Report of Analysis**

Client Sample ID: TGMS-01-KIT-KC-P

Lab Sample ID:D81293-4Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.00050	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18449

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: TGMS-01-C106-KC-P

Lab Sample ID:D81293-5Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.00091	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18449

RL = Reporting Limit



## **Report of Analysis**

Client Sample ID: TGMS-01-A157-EC-P

Lab Sample ID: D81293-6 **Date Sampled:** 03/30/16 Matrix: **Date Received:** 03/31/16 DW - Drinking Water Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0011	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209 (2) Prep QC Batch: MP18450

RL = Reporting Limit





## **Report of Analysis**

Client Sample ID: TGMS-01-A113-CF-P

Lab Sample ID:D81293-7Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	60 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18450

RL = Reporting Limit

## **Report of Analysis**

Client Sample ID: TGMS-01-A122\_A120-WC-P

Lab Sample ID:D81293-8Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	60 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18450

RL = Reporting Limit

## **Report of Analysis**

Client Sample ID: TGMS-01-A134-CF-P

Lab Sample ID:D81293-9Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0013	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18450

RL = Reporting Limit



## **Report of Analysis**

Client Sample ID: TGMS-01-A133-CF-P

Lab Sample ID:D81293-10Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0018	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18450

RL = Reporting Limit

## **Report of Analysis**

Client Sample ID: TGMS-01-E143\_E142-WC-P

Lab Sample ID:D81293-11Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18450

RL = Reporting Limit



## **Report of Analysis**

Client Sample ID: TGMS-01-E102-CF-P

Lab Sample ID:D81293-12Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0017	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18450

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

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## **Report of Analysis**

Client Sample ID: TGMS-02-A211-CF-P

Lab Sample ID:D81293-13Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.00068	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18450

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

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## **Report of Analysis**

Client Sample ID: TGMS-02-A222\_A219-WC-P

Lab Sample ID:D81293-14Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18450

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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Page 1 of 1

## **Report of Analysis**

Client Sample ID: TGMS-02-A233-CF-P

Lab Sample ID:D81293-15Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.025	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18450

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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## Section 5

Custody D	ocuments and Other Forms	
Includes the • Chain of Cu	following where applicable:	



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**D81293: Chain of Custody** Page 1 of 3

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Resinquipped by Sampler:	7						Religion shed By:						Date Time:			R	eceived Sy		5	2-1	3/3/	Y		
1 Chylo Cy	L	Date Time:				3-30-16 2 1728								2 Jano Detoto Tost				4						
Rollinguished by Sampler:	-	Date Time:	Time: Received By:			Relinquished By:									Date Tir	Yiè:	R.	èselvad By	<b>/</b> :	,				
3		1	3					-17-																1

Custody Seal #

D81293: Chain of Custody Page 2 of 3

Preserved where applicable

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### **SGS Accutest Sample Receipt Summary**

Comments

Job Number:	D81293	Client: PA	ARS	Project: WWP REGIONA	L TGMS
Date / Time Received:	3/31/2016 10:40:00	AM De	elivery Method:	Airbill #'s: fx	
Cooler Temps (Initial/Adj	usted): #1: (1.9/1.	9);_			
1. Custody Seals Present: 2. Custody Seals Intact: Cooler Temperature 1. Temp criteria achieved: 2. Cooler temp verification: 3. Cooler media: 4. No. Coolers:		. COC Preser		Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:  Sample Integrity - Condition  1. Sample recvd within HT: 2. All containers accounted for: 3. Condition of sample:	Y or N  ✓ □  ✓ □  Y or N  ✓ □  Intact
Quality Control Preserva  1. Trip Blank present / coole  2. Trip Blank listed on COC:  3. Samples preserved prope  4. VOCs headspace free:	r:	N/A  V		Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis: 4. Compositing instructions clear: 5. Filtering instructions clear:	Y or N N/A  V

D81293: Chain of Custody Page 3 of 3



Section 6

## Metals Analysis

## QC Data Summaries

### Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

## SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81293 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

	Sample	Dilution	n PS	
Time	Description	Factor	Recov	Comments
07:39	ZZZZZZ	1		
07:42	ZZZZZZ	1		
07:46	MA7209-STD1	1		STDBLK
07:49	MA7209-STD2	1		STD1
07:52	MA7209-STD3	1		STD2
07:55	MA7209-STD4	1		STD3
07:58	MA7209-CRI1	1		Possible analytical problem. See rerun.
08:03	MA7209-CRI2	1		
08:06	MA7209-ICV1	1		
08:09	MA7209-ICB1	1		
08:12	MA7209-CCV1	1		
08:15	MA7209-CCB1	1		
08:18	ZZZZZZ	1		
08:21	MP18448-MB1	1		
08:24	MP18448-B1	1		
08:27	D81292-1	1		(sample used for QC only; not part of login D81293)
08:30	MP18448-S1	1		
08:34	MA7209-CCV2	1		
08:37	MA7209-CCB2	1		
08:40	MP18448-S2	1		
08:43	ZZZZZZ	1		
08:46	ZZZZZZ	1		
08:49	ZZZZZZ	1		
08:52	ZZZZZZ	1		
08:55	ZZZZZZ	1		
08:58	ZZZZZZ	1		
09:01	ZZZZZZ	1		
09:04	ZZZZZZ	1		
09:04	ZZZZZZ	1		
09:07	ZZZZZZ	1		
09:10	MA7209-CCV3	1		
09:13	MA7209-CCB3	1		
09:17	MP18449-MB1	1		



## SGS Accutest Instrument Runlog Inorganics Analyses

### Login Number: D81293 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Analyst: RM Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Parameters: Pb

Time	Sample Description	Dilution PS Factor Recov Comments
09:20	MP18449-B1	1
09:23	D81293-1	1
09:26	MP18449-S1	1
09:29	MP18449-S2	1
09:32	ZZZZZZ	1
09:35	ZZZZZZ	1
09:38	ZZZZZZ	1
09:41	ZZZZZZ	1
09:44	ZZZZZZ	1
09:47	MA7209-CCV4	1
09:50	MA7209-CCB4	1
09:54	ZZZZZZ	1
09:57	D81293-2	1
10:00	D81293-3	1
10:03	D81293-4	1
10:06	D81293-5	1
10:09	MP18450-MB1	1
10:12	MP18450-B1	1
10:15	D81293-6	1
10:18	MP18450-S1	1
10:21	MP18450-S2	1
10:24	MA7209-CCV5	1
10:28	MA7209-CCB5	1
10:31	D81293-7	1
10:34	D81293-8	1
10:37	D81293-9	1
10:40	D81293-10	1
10:43	D81293-11	1
10:46	D81293-12	1
10:49	D81293-13	1
10:52	D81293-14	1
Last r	D81293-15 eportable sample MP18451-MB1	e/prep for job D81293

## SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81293 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Analyst: RM

Date Analyzed: 04/14/16 Run ID: MA7209

Methods: EPA 200.8

Parameters: Pb

---->

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:01	MA7209-CCV6	1		
	MA7209-CCB6	1		
	reportable CCB fo MP18451-B1	r job D81 1	293	
11:10	D81294-1	1		(sample used for QC only; not part of login D81293)
11:14	MP18451-S1	1		
11:17	MP18451-S2	1		
11:20	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:26	ZZZZZZ	1		
11:29	ZZZZZZ	1		
11:32	ZZZZZZ	1		
11:35	ZZZZZZ	1		
11:38	MA7209-CCV7	1		
11:41	MA7209-CCB7	1		
11:44	ZZZZZZ	1		
11:47	ZZZZZZ	1		
11:50	ZZZZZZ	1		
11:53	MP18447-MB1	1		
11:56	MP18447-B1	1		
12:00	D81295-1	1		(sample used for QC only; not part of login D81293)
12:03	MP18447-S1	1		
12:06	MP18447-S2	1		
12:09	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:15	MA7209-CCV8	1		
12:18	MA7209-CCB8	1		
12:21	ZZZZZZ	1		
12:24	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:40	ZZZZZZ	1		

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ACCUTEST
D81293

### SGS Accutest Instrument Runlog Inorganics Analyses

### Login Number: D81293 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Analyst: RM Parameters: Pb

Para	meters: Pb		
Time	_	Dilutior Factor	Comments
12:43	MP18452-MB1	1	
12:46	MP18452-B1	1	see rerun
12:49	D81333-1	1	(sample used for QC only; not part of login D81293)
12:52	MA7209-CCV9	1	
12:55	MA7209-CCB9	1	
12:58	MP18452-S1	1	
13:01	MP18452-S2	1	
13:04	ZZZZZZ	1	
13:07	ZZZZZZ	1	
13:10	ZZZZZZ	1	
13:13	ZZZZZZ	1	
13:17	ZZZZZZ	1	
13:20	ZZZZZZ	1	
13:23	ZZZZZZ	1	
13:26	ZZZZZZ	1	
13:29	MA7209-CCV10	1	
13:32	MA7209-CCB10	1	
13:35	ZZZZZZ	1	
13:38	MA7209-CCV11	1	
13:41	MA7209-CCB11	1	
14:03	ZZZZZZ	1	
14:06	ZZZZZZ	1	
14:09	MP18453-MB1	1	
14:12	MP18453-B1	1	
14:15	D81333-6	1	(sample used for QC only; not part of login D81293)
14:26	MP18453-S1	1	
14:29	MP18453-S2	1	
14:32	ZZZZZZ	1	
14:35	ZZZZZZ	1	
14:38	MP18452-B1	1	
14:41	MA7209-CCV12	1	
14:44	MA7209-CCB12	1	

Refer to raw data for calibration curve and standards.

### Login Number: D81293 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Para	ameters: Pb		
Time	Sample Description	Istd#1	Istd#2
07:39	ZZZZZZ	454198	502850
07:42	ZZZZZZ	443803	488302
07:46	MA7209-STD1	440446 R	488787 R
07:49	MA7209-STD2	432812	477471
07:52	MA7209-STD3	444552	471684
07:55	MA7209-STD4	418479	449504
07:58	MA7209-CRI1	No result	s reported for the elements associated with this internal standard.
08:03	MA7209-CRI2	427738	455261
08:06	MA7209-ICV1	441305	467474
08:09	MA7209-ICB1	423330	464361
08:12	MA7209-CCV1	437487	468907
08:15	MA7209-CCB1	425164	462506
08:18	ZZZZZZ	393164	392547
08:21	MP18448-MB1	401369	417516
08:24	MP18448-B1	396977	418679
08:27	D81292-1	411118	413248
08:30	MP18448-S1	415297	409788
08:34	MA7209-CCV2	440520	469021
08:37	MA7209-CCB2	411664	454809
08:40	MP18448-S2	408626	403631
08:43	ZZZZZZ	400515	399454
08:46	ZZZZZZ	401357	405168
08:49	ZZZZZZ	403967	405826
08:52	ZZZZZZ	405563	404771
08:55	ZZZZZZ	410066	408196
08:58	ZZZZZZ	404010	402560
09:01	ZZZZZZ	404652	397730
09:04	ZZZZZZ	402293	401894
09:04	ZZZZZZ	402293	401894
09:07	ZZZZZZ	406563	402074
09:10	MA7209-CCV3	439057	470400
09:13	MA7209-CCB3	421464	456896
09:17	MP18449-MB1	400391	403203

Login Number: D81293 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

	mmeters. PD		
Time	Sample Description	Istd#1	Istd#2
09:20	MP18449-B1	399236	410408
09:23	D81293-1	404435	404959
09:26	MP18449-S1	401844	403961
09:29	MP18449-S2	401753	404009
09:32	ZZZZZZ	402501	398455
09:35	ZZZZZZ	406017	393104
09:38	ZZZZZZ	401059	401168
09:41	ZZZZZZ	398197	399160
09:44	ZZZZZZ	399848	400904
09:47	MA7209-CCV4	433177	455140
09:50	MA7209-CCB4	417109	449909
09:54	ZZZZZZ	396983	394592
09:57	D81293-2	391415	390231
10:00	D81293-3	400484	395177
10:03	D81293-4	407978	399118
10:06	D81293-5	409640	396550
10:09	MP18450-MB1	415820	418350
10:12	MP18450-B1	408609	405182
10:15	D81293-6	410586	402601
10:18	MP18450-S1	406917	398840
10:21	MP18450-S2	407613	403050
10:24	MA7209-CCV5	432231	449692
10:28	MA7209-CCB5	423323	449467
10:31	D81293-7	401905	390589
10:34	D81293-8	399604	392980
10:37	D81293-9	409739	393477
10:40	D81293-10	402904	397071
10:43	D81293-11	407746	396539
10:46	D81293-12	415698	400216
10:49	D81293-13	406956	400821
	D81293-14		399513
	D81293-15	402207	397845
10:58	MP18451-MB1	411878	406337

# Login Number: D81293 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Time	Sample Description	Istd#1	Istd#2
11:01	MA7209-CCV6	433782	450090
11:04	MA7209-CCB6	420244	441583
11:07	MP18451-B1	410443	398362
11:10	D81294-1	419007	399880
11:14	MP18451-S1	414012	400717
11:17	MP18451-S2	413388	401939
11:20	ZZZZZZ	403070	398111
11:23	ZZZZZZ	407605	386406
11:26	ZZZZZZ	415288	394425
11:29	ZZZZZZ	405192	392371
11:32	ZZZZZZ	410577	397729
11:35	ZZZZZZ	405172	387233
11:38	MA7209-CCV7	440801	447223
11:41	MA7209-CCB7	421386	436272
11:44	ZZZZZZ	399478	386705
11:47	ZZZZZZ	400781	387378
11:50	ZZZZZZ	413019	389909
11:53	MP18447-MB1	417677	411702
11:56	MP18447-B1	407027	396094
12:00	D81295-1	415831	393077
12:03	MP18447-S1	419655	402165
12:06	MP18447-S2	424122	403599
12:09	ZZZZZZ	402781	384413
12:12	ZZZZZZ	403429	387983
12:15	MA7209-CCV8	435341	436507
12:18	MA7209-CCB8	423104	429492
12:21	ZZZZZZ	412393	385949
12:24	ZZZZZZ	407628	383985
12:27	ZZZZZZ	409041	382610
12:30	ZZZZZZ	407799	385156
12:33	ZZZZZZ	406922	386009
12:36	ZZZZZZ	412740	384586
12:40	ZZZZZZ	401709	382824



Login Number: D81293 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Analyst: RM Parameters: Pb

Para	ameters: Pb		
Time	Sample Description	Istd#1	Istd#2
12:43	MP18452-MB1	420241	401814
12:46	MP18452-B1	419395	397055
12:49	D81333-1	409448	385797
12:52	MA7209-CCV9	430672	429843
12:55	MA7209-CCB9	417749	417025
12:58	MP18452-S1	418230	385399
13:01	MP18452-S2	407146	383643
13:04	ZZZZZZ	408302	371466
13:07	ZZZZZZ	403689	379674
13:10	ZZZZZZ	411539	386596
13:13	ZZZZZZ	403197	370721
13:17	ZZZZZZ	416680	381802
13:20	ZZZZZZ	407648	378587
13:23	ZZZZZZ	406024	374405
13:26	ZZZZZZ	408407	372818
13:29	MA7209-CCV10	435942	413205
13:32	MA7209-CCB10	416214	413753
13:35	ZZZZZZ	404822	362076
13:38	MA7209-CCV11	426568	411895
13:41	MA7209-CCB11	409523	407424
14:03	ZZZZZZ	399108	396795
14:06	ZZZZZZ	402218	391683
14:09	MP18453-MB1	378082	358105
14:12	MP18453-B1	386228	358559
14:15	D81333-6	385509	348769
14:26	MP18453-S1	442219	399666
14:29	MP18453-S2	443365	396207
14:32	ZZZZZZ	449246	398780
14:35	ZZZZZZ	444286	403215
14:38	MP18452-B1	454603	416082
14:41	MA7209-CCV12	468425	438157
14:44	MA7209-CCB12	451676	437854

R = Reference for ISTD limits. ! = Outside limits.

Login Number: D81293 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209 File ID: PA041416DW.REP

Analyst: RM

Parameters: Pb

Sample Time Description Istd#1 Istd#2

LEGEND:

Istd#	<u>Parameter</u>	Limits	
Istd#1	Yttrium	60-125	용
Istd#2	Bismuth	60-125	왕

### BLANK RESULTS SUMMARY

Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81293

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	RL	IDL	08:09 ICB1 raw	final	08:15 CCB1 raw	final	08:37 CCB2 raw	final	09:13 CCB3 raw	final
Copper	2.0	.06	anr							
Lead	0.50	.0079	0.15	<0.50	0.083	<0.50	0.12	<0.50	0.067	<0.50

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

### BLANK RESULTS SUMMARY

Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81293

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/1

Time: Sample ID: Metal	RL	IDL	09:50 CCB4 raw	final	10:28 CCB5 raw	final	11:04 CCB6 raw	final
Copper	2.0	.06	anr					
Lead	0.50	.0079	0.071	<0.50	0.11	<0.50	0.088	<0.50

### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81293

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Units: ug/l

Time: Sample ID: Metal	ICV True	08:06 ICV1 Results	% Rec	CCV True	08:12 CCV1 Results	% Rec	CCV True	08:34 CCV2 Results	% Rec	
Copper	anr									
Lead	100	102	102.0	50	51.4	102.8	50	52.3	104.6	

### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81293

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Units: ug/l

Time: Sample ID: Metal	CCV True	09:10 CCV3 Results	% Rec	CCV True	09:47 CCV4 Results	% Rec	CCV True	10:24 CCV5 Results	% Rec
Copper	anr								
Lead	50	51.6	103.2	50	52.2	104.4	50	51.5	103.0

## CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81293
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery Run ID: MA7209 Units: ug/1

Time:		11:01	
Sample ID:	CCV	CCV6	
Metal	True	Results	% Rec

Copper	anr		
Lead	50	52.1	104.2

### LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: D81293
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 50 to 150 % Recovery Run ID: MA7209 Units: ug/1

(\*) Outside of QC limits
(anr) Analyte not requested

\_\_\_\_

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

### Login Number: D81293

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18449 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000021	<0.00050

04/13/16

Associated samples MP18449: D81293-1, D81293-2, D81293-3, D81293-4, D81293-5

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81293 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18449 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Metal	D81293-1 Original MS	Spikelot ICPALL2 % Rec	QC Limits
Copper			
Lead	0.00076 0.19	0.20 94.6	70-130

Associated samples MP18449: D81293-1, D81293-2, D81293-3, D81293-4, D81293-5

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

**ACCUTEST** 

## 0.7.7

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81293
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18449 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81293-1 Original MSD	Spikelot ICPALL2 % Rec	MSD RPD	QC Limit
Copper				
Lead	0.00076 0.19	0.20 94.6	0.0	20

Associated samples MP18449: D81293-1, D81293-2, D81293-3, D81293-4, D81293-5

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81293 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18449 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

04/13/16 Prep Date:

0.19

Lead

|--|

Associated samples MP18449: D81293-1, D81293-2, D81293-3, D81293-4, D81293-5

95.0 85-115

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

0.20

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D81293

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18450 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000004	0<0.00050

Associated samples MP18450: D81293-6, D81293-7, D81293-8, D81293-9, D81293-10, D81293-11, D81293-12, D81293-13, D81293-14, D81293-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

# 0.3.2

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81293
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18450 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81293-6 Original	MS	Spikelot ICPALL2	
er				
Lead	0.0011	0.20	0.20	99.5

Associated samples MP18450: D81293-6, D81293-7, D81293-8, D81293-9, D81293-10, D81293-11, D81293-12, D81293-13, D81293-14, D81293-15

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

49 of 51
ACCUTEST
D81293

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81293 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18450 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Metal	D81293-6 Original MSD	Spikelot ICPALL2		MSD RPD	QC Limit
Copper					
Lead	0.0011 0.1	7 0.20	84.5	16.2	20

Associated samples MP18450: D81293-6, D81293-7, D81293-8, D81293-9, D81293-10, D81293-11, D81293-12, D81293-13, D81293-14, D81293-15

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

# 6.3.3

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81293
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18450 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	BSP Result	Spikelot ICPALL2	% Rec	QC Limits
per				
Lead	0.19	0.20	95.0	85-115

Associated samples MP18450: D81293-6, D81293-7, D81293-8, D81293-9, D81293-10, D81293-11, D81293-12, D81293-13, D81293-14, D81293-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

\_\_\_\_

51 of 51
ACCUTEST
D81293



# ACCUTEST New Jersey

05/02/16

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e-Hardcopy 2.0
Automated Report

### Technical Report for

#### **PARS** Environmental Services

WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

565-84

SGS Accutest Job Number: JC18920

Sampling Date: 04/20/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 RTorres@ParsEnviro.com

ATTN: Rafael Torres

Total number of pages in report: 41

TNI FBORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Maney +. Cole
Nancy Cole
Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest. Test results relate only to samples analyzed.

SGS

1 of 4

### **Sections:**

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# **Sample Summary**

PARS Environmental Services

Job No: JC18920

WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ Project No: 565-84

Sample	Collected		Matr	ix	Client					
Number	Date	Time By	Received	Code	Type	Sample ID				
JC18920-1	04/20/16	05:56 MN	04/22/16	DW	Drinking Water	TGMS-02-A233-CF-P				
JC18920-2	04/20/16	05:57 MN	04/22/16	DW	Drinking Water	TGMS-02-A233-CF-F				

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No JC18920

Site: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, Report Date 5/2/2016 4:01:52 PM

On 04/22/2016, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 5.6 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC18920 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

#### Metals By Method EPA 200.8

Monday, May 02, 2016

Matrix: DW Batch ID: MP93316

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC18920-1MS, JC18920-1MSD were used as the QC samples for metals.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

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**Summary of Hits Job Number:** JC18920

Account: PARS Environmental Services

Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

**Collected:** 04/20/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC18920-1	TGMS-02-A233-C	CF-P				
Lead		0.011	0.00050		mg/l	EPA 200.8
JC18920-2	TGMS-02-A233-C	CF-F				
Lead		0.0070	0.00050		mg/l	EPA 200.8



# Section 4

Sample Results	
Report of Analysis	

Page 1 of 1

### 4

### **Report of Analysis**

Client Sample ID: TGMS-02-A233-CF-P

Lab Sample ID:JC18920-1Date Sampled:04/20/16Matrix:DW - Drinking WaterDate Received:04/22/16Percent Solids:n/a

**Project:** WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.011	0.015	0.00050	0 mg/l	1	04/25/16	04/25/16 јо	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39257(2) Prep QC Batch: MP93316

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



Page 1 of 1

### **Report of Analysis**

Client Sample ID: TGMS-02-A233-CF-F

Lab Sample ID:JC18920-2Date Sampled:04/20/16Matrix:DW - Drinking WaterDate Received:04/22/16Percent Solids:n/a

Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0070	0.015	0.0005	50 mg/l	1	04/25/16	04/25/16 јо	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39257(2) Prep QC Batch: MP93316

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)





# **Section 5**

Misc. Forms

**Custody Documents and Other Forms** 

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

	ACCUTEST.	DW		CHAI  2235 TEL. 732-3	Route 13	0, Daytor	n, NJ 0	8810	-	Y				L	EX Trac	-					order Cor			. OF	<u> </u>
				TEL. /32-3		accutest.c		-3499/3	480					Accut	est Quo	ite#				Accutes	t Job#		JO	18	920
	Client / Reporting Information			Project	Informa	ation									R	equest	ed Ana	alysis (	see T	ESTC	ODE 8	heet)			Matrix Codes
Cos	mpany Name	Project Name:																							
	PARS Environmental Inc.	WWP So	hools - Grove	r Middle																					DW - Drinking Wat GW - Ground Wat
Stre	eet Address	Street			branca.	del Carrel Common													1						WW - Water SW - Surface Wat
City	500 Horizon Drive, Suite 540	10 South	field Road	State		Informati	lon ( if c	differen	t from	Rep	ort to	)		_											SO - Soil
City	·				Compan	y Name								1	1				l	i					SL- Sludge SED-Sediment
Pro	Robbinsville, NJ 08691	Project #	Nindsor	NJ	Street A	ddress								-		-		1							OI - Oil LIQ - Other Liquid
1	Rafael L. Torres, III	56	5-84																						AIR - Air
	one# Fax#	Client Purchase	Order#		City				State			Zi	p	7						1				ļ	SOL - Other Solid WP - Wipe
	609-890-7277 609-890-9116															1									FB-Field Blank EB-Equipment Blan
San	mpler(s) Name(s) Phone #	Project Manager			Attention	Y.																	- 1		RB- Rinse Blank
$\vdash$	Rafael L. Torres, III 609-254-8884	Rafael L.	Torres, ill	Collection	1	_	1		Num	ber of	f prese	rved Bo	Hios	∣ທ	İ										TB-Trip Blank
				1		1			П	Τ	T	ĕ _	2	BW			i	1						- 1	
	Field ID / Point of Collection	MEOH/DI Vial#	Date	Time	Sampled by	Matrix	# of bot	ttles 모	NaOH	HZSO4	NONE	MEO W	ENCO	8											LAB USE ONLY
	TGMS-02-A233-CF-P		4/20/16	0556	MN	DW	1		-	1			П	1											A23
12	TGMS-02-A233-CF-F		4/20/16	0557	MN	DW	1	T		1	П		П	1									$\neg \tau$		
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	Std. 10 Business Days					Commerc							P Cate												
	5 Day RUSH					ULLT1 (		3+4)			$\overline{}$		Forms												
	3 Day EMERGENCY  Z Day EMERGENCY		·			NJ Reduc Commerc						EDD Other	Format	·		$\vdash$									
1 Day EMERGENCY					۱۳,		Comme	ercial "A	" = Re	sults		Juler		_											
.	other					Commercial "B" = Results + QC Summary																			
	Emergency & Rush T/A data available VIA Lablink	/ , Sam	ple Custody mu	st be docum	ented be	low each	NJ Red	samet	Result	s + Q	C Su	mmary	+ Partia	al Raw d	ata	or do"				400000000	in an an an an an an an an an an an an an	1000000000	0000000000		
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JC18920: Chain of Custody

Page 1 of 2

### 5.1

### 45

Job Number: JC18	3920 Client:		Project:	
Date / Time Received: 4/22	'2016 5:10:00 PM	Delivery Method:	Airbill #'s:	
Cooler Temps (Raw Measured Cooler Temps (Corrected	,			
Cooler Security  1. Custody Seals Present:  2. Custody Seals Intact:  Cooler Temperature			Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:	Y or N V   V   V
Temp criteria achieved:     Cooler temp verification:     Cooler media:     No. Coolers:	IR Gun Ice (Bag)	- - -	Sample Integrity - Condition  1. Sample recvd within HT:  2. All containers accounted for:  3. Condition of sample:	Y or N  V   Intact
Quality Control Preservation  1. Trip Blank present / cooler:  2. Trip Blank listed on COC:  3. Samples preserved properly:  4. VOCs headspace free:	Y or N N/A	A	Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis: 4. Compositing instructions clear: 5. Filtering instructions clear:	Y or N N/A
Comments				

**SGS Accutest Sample Receipt Summary** 

JC18920: Chain of Custody

Page 2 of 2

### **Internal Sample Tracking Chronicle**

PARS Environmental Services

Job No: JC18920

WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ Project No: 565-84

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
JC18920-1 TGMS-02-A	Collected: 20-APR-16 A233-CF-P	05:56 By: MN	Receiv	ved: 22-APR-	-16 By:	: AS
JC18920-1	EPA 200.8	25-APR-16 14:09	JO	25-APR-16	JO	PBMS
JC18920-2 TGMS-02-2	Collected: 20-APR-16 A233-CF-F	05:57 By: MN	Receiv	ved: 22-APR-	-16 By:	: AS
JC18920-2	EPA 200.8	25-APR-16 14:13	JO	25-APR-16	JO	PBMS

Page 1 of 1

# **SGS Accutest Internal Chain of Custody**

Job Number: JC18920

**Account:** PARS PARS Environmental Services

Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

**Received:** 04/22/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC18920-1.1	Secured Storage	Alfredo Crespo	04/25/16 10:51	Retrieve from Storage
JC18920-1.1	Alfredo Crespo	Secured Staging Area	04/25/16 10:51	Return to Storage
JC18920-1.1	Secured Staging Area	Jaclyn O'Connor	04/25/16 10:54	Retrieve from Storage
JC18920-1.1	Jaclyn O'Connor	Secured Storage	04/25/16 15:00	Return to Storage
JC18920-1.1	Secured Storage	Alfredo Crespo	04/25/16 15:04	Retrieve from Storage
JC18920-1.1	Alfredo Crespo	Secured Staging Area	04/25/16 15:04	Return to Storage
JC18920-1.1	Secured Staging Area	Lucas Schneider	04/25/16 15:23	Retrieve from Storage
JC18920-1.1	Lucas Schneider	Secured Storage	04/25/16 23:42	Return to Storage
JC18920-2.1	Secured Storage	Alfredo Crespo	04/25/16 10:51	Retrieve from Storage
JC18920-2.1	Alfredo Crespo	Secured Staging Area	04/25/16 10:51	Return to Storage
JC18920-2.1	Secured Staging Area	Jaclyn O'Connor	04/25/16 10:54	Retrieve from Storage
JC18920-2.1	Jaclyn O'Connor	Secured Storage	04/25/16 15:00	Return to Storage
JC18920-2.1	Secured Storage	Alfredo Crespo	04/25/16 15:04	Retrieve from Storage
JC18920-2.1	Alfredo Crespo	Secured Staging Area	04/25/16 15:04	Return to Storage
JC18920-2.1	Secured Staging Area	Lucas Schneider	04/25/16 15:23	Retrieve from Storage
JC18920-2.1	Lucas Schneider	Secured Storage	04/25/16 23:42	Return to Storage



Section 6

### Metals Analysis

### QC Data Summaries

### Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

#### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Analyst: JO Parameters: Pb

	Sample	Dilution PS	
Time	Description	Factor Reco	7 Comments
09:11	MA39257-STD1	1	STDA
09:15	MA39257-STD2	1	STDA
09:20	MA39257-STD3	1	STDA
09:24	MA39257-STD4	1	STDA
09:29	MA39257-STD5	1	STDA
09:33	MA39257-STD6	1	STDA
09:38	MA39257-STD7	1	STDB
09:42	MA39257-STD8	1	STDC
09:46	MA39257-STD9	1	STDD
09:51	MA39257-STD10	1	STDE
09:55	MA39257-STD11	1	STDF
10:00	MA39257-STD12	1	STDG
10:04	MA39257-STD13	1	STDH
10:08	MA39257-STD14	1	STDI
10:13	MA39257-STD15	1	STDJ
10:23	MA39257-STD16	1	STDA
10:28	MA39257-ICVA1	1	
10:32	MA39257-ICV1	1	60ppb Al.
10:36	MA39257-ICB1	1	
10:41	MA39257-CRI1	1	
10:45	MA39257-ICSA1	1	
10:50	MA39257-ICSAB1	1	
10:55	ZZZZZZ	1	
10:59	ZZZZZZ	1	
11:04	ZZZZZZ	1	
11:13	ZZZZZZ	1	
11:18	ZZZZZZ	1	
11:28	MA39257-CCVA1	1	
11:34	MA39257-CCB1	1	
11:38	ZZZZZZ	1	
11:42	ZZZZZZ	1	
11:47	ZZZZZZ	1	
11:51	ZZZZZZ	1	

### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

Methods: EPA 200.8, SW846 6020A

Parameters: Pb

File ID: XB042516M1.CSV Analyst: JO Date Analyzed: 04/25/16 Run ID: MA39257

Timo	Sample	Dilution	PS Pager	Commonts		
	Description ZZZZZZ		116001	COMMETICS		
	ZZZZZZ					
	ZZZZZZ					
	ZZZZZZ					
12:13	MA39257-CCVA2	1				
12:18	MA39257-CCB2	1				
12:22	ZZZZZZ	2				
12:27	ZZZZZZ	2				
12:31	ZZZZZZ	1				
12:36	MA39257-CRI2	1				
12:40	ZZZZZZ	5				
12:44	ZZZZZZ	5				
12:49	ZZZZZZ	1				
12:53	MA39257-CRI3	1				
12:58	MA39257-CCVA3	1				
13:02	MA39257-CCB3	1				
13:07	ZZZZZZ	1				
13:11	ZZZZZZ	10				
13:15	ZZZZZZ	10				
13:20	ZZZZZZ	1				
13:24	ZZZZZZ	1				
13:29	ZZZZZZ	1				
13:33	ZZZZZZ	1				
13:38	MA39257-CRI4	1				
13:42	MA39257-CCVA4	1				
13:46	MA39257-CCB4	1				
13:51	MP93316-MB1	1				
13:55	MP93316-B1	1				
14:00	MP93316-S1	1				
14:04	MP93316-S2	1				
14:09	JC18920-1	1				
	JC18920-2			000		
	reportable sample ZZZZZZ		Job JC18	920		

### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

Analyst: JO Parameters: Pb

File ID: XB042516M1.CSV

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Time	Sample Description	Dilution Dil		Comments
14:22	ZZZZZZ	1		
14:26	ZZZZZZ	1		
14:31	MA39257-CCVA5	1		
Last r	MA39257-CCB5 eportable CCB fo MP93268-MB1	1 or job JC189 1	920	
14:44	MP93268-B1	1		
14:48	MP93268-B1	2		Ag
14:53	MP93268-S1	1		
14:57	MP93268-S1	2		Ag
15:02	MP93268-S2	1		
15:06	MP93268-S2	2		Ag
15:10	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:19	MA39257-CCVA6	1		
15:24	MA39257-CCB6	1		
15:28	JC18553-2	1		(sample used for QC only; not part of login JC18920)
15:33	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:42	ZZZZZZ	1		
15:46	ZZZZZZ	1		
15:50	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:04	ZZZZZZ	1		
16:08	ZZZZZZ	1		
16:12	MA39257-CCVA7	1		
16:17	MA39257-CCB7	1		
16:21	MP93282-MB1	1		
16:26	MP93282-B1	1		
16:30	MP93282-B1	2		Ag
16:35	MP93282-S1	1		
16:39	MP93282-S1	2		Ag
16:44	MP93282-S2	1		

#### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV Analyst: JO

Parameters: Pb

Date Analyzed: 04/25/16

Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Time	Sample Description	Dilutior Factor	Comments
16:48	MP93282-S2	2	AG
16:52	ZZZZZZ	1	
16:57	ZZZZZZ	1	
17:01	MA39257-CCVA8	1	
17:06	MA39257-CCB8	1	
17:10	JC18565-1	1	(sample used for QC only; not part of login JC18920)
17:15	ZZZZZZ	1	
17:19	ZZZZZZ	1	
17:23	ZZZZZZ	1	
17:28	ZZZZZZ	1	
17:32	ZZZZZZ	1	
17:37	ZZZZZZ	1	
17:41	ZZZZZZ	1	
17:46	MA39257-CCVA9	1	
17:50	MA39257-CCB9	1	

Refer to raw data for calibration curve and standards.

# Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV Analyst: JO

Parameters: Pb

Date Analyzed: 04/25/16

Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Pala	meters. PD								
Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
09:11	MA39257-STD1	100	100	100	100	100	100	100	100
09:15	MA39257-STD2	100	100	100	100	100	100	100	100
09:20	MA39257-STD3	100	100	100	100	100	100	100	100
09:24	MA39257-STD4	100	100	100	100	100	100	100	100
09:29	MA39257-STD5	100	100	100	100	100	100	100	100
09:33	MA39257-STD6	100	100	100	100	100	100	100	100
09:38	MA39257-STD7	100.588	100.562	98.932	98.74	100.682	99.852	100.258	100.691
09:42	MA39257-STD8	102.257	101.111	100.026	99.342	101.212	100.181	98.994	100.468
09:46	MA39257-STD9	101.484	100.13	99.555	98.973	101.122	99.864	100.649	100.625
09:51	MA39257-STD10	101.84	99.549	98.606	99.708	100.358	99.329	100.137	100.527
09:55	MA39257-STD11	102.133	99.745	98.388	98.103	100.038	98.669	99.766	100.405
10:00	MA39257-STD12	102.391	101.245	99.856	99.485	101.213	99.245	100.652	100.522
10:04	MA39257-STD13	101.204	100.121	97.728	98.275	99.11	97.293	98.933	98.524
10:08	MA39257-STD14	101.365	99.896	97.769	97.498	99.54	97.592	97.718	97.883
10:13	MA39257-STD15	99.988	99.93	97.856	96.928	98.774	96.63	97.416	95.987
10:23	MA39257-STD16	100	100	100	100	100	100	100	100
10:28	MA39257-ICVA1	98.742	100.021	100.715	101.086	100.76	100.7	101.606	97.915
10:32	MA39257-ICV1	97.88	98.588	97.524	99.223	98.357	98.475	99.567	98.712
10:36	MA39257-ICB1	99.107	98.583	97.866	100.455	98.946	98.585	100.699	99.08
10:41	MA39257-CRI1	97.596	98.302	98.28	99.985	99.157	98.563	100.256	99.112
10:45	MA39257-ICSA1	94.127	98.343	101.986	105.814	94.97	97.511	99.957	87.732
10:50	MA39257-ICSAB1	98.716	107.72	111.407	112.099	102.505	103.821	103.749	92.78
10:55	ZZZZZZ	108.625	113.709	111.975	109.066	112.575	109.499	107.054	108.404
10:59	ZZZZZZ	105.392	111.722	111.465	111.083	111.004	109.886	107.896	105.38
11:04	ZZZZZZ	105.005	108.694	108.252	109.337	107.475	107.175	108.533	104.826
11:13	ZZZZZZ	104.413	109.795	108.662	108.462	109.139	108.783	106.969	104.224
11:18	ZZZZZZ	104.196	107.798	107.595	106.418	106.826	106.9	104.534	102.696
11:28	MA39257-CCVA1	104.408	107.865	107.871	106.513	106.141	106.474	104.677	101.452
11:34	MA39257-CCB1	104.738	107.759	107.526	111.896	106.471	105.778	109.985	104.358
11:38	ZZZZZZ	No result	s reported	for the	elements as	sociated w	ith this i	nternal st	andard.
11:42	ZZZZZZ	No result	s reported	for the	elements as	sociated w	ith this i	nternal st	andard.
11:47	ZZZZZZ	101.891	106.802	106.056	106.869	105.631	104.554	105.248	102.095
11:51	ZZZZZZ	104.372	108.34	107.543	107.653	107.842	105.948	104.98	103.522

#### Login Number: JC18920 Account: PARS - PARS Environmental Services

Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV

14:17 ZZZZZZ

94.973

101.699

Analyst: JO

Date Analyzed: 04/25/16 Run ID: MA39257 Methods: EPA 200.8, SW846 6020A

Parameters: Pb Sample Istd#1 Istd#2 Istd#3 Istd#4 Istd#5 Istd#6 Istd#7 Istd#8 Time Description 11:56 7.7.7.7.7.7 102 385 106 806 105 444 104 841 105 757 103 965 103 248 103 363 12:00 ZZZZZZ 100.867 103.036 105.048 102.752 102.17 104.749 103.604 101.426 12:05 ZZZZZZ 99.641 104.978 103.438 105.401 104.236 102.255 102.534 101.349 12:09 22222 102 613 107 276 105 531 105 992 105 422 103 898 104 135 103 02 12:13 MA39257-CCVA2 102.165 106.109 104.777 105.556 105.264 104.282 103.132 100.944 106.513 103.614 12:18 MA39257-CCB2 104.638 104.928 106.069 104.966 103.902 103.813 102 773 12:22 22222 103.342 105.339 103.632 105.008 104.324 102.801 103.654 12:27 ZZZZZZ 101.26 104.097 102.433 103.064 103.463 100.721 101.559 100.151 12:31 ZZZZZZ 99.837 101.785 100.315 101.782 101.313 99.87 100.204 99.766 12:36 MA39257-CRT2 97.602 101.671 99.866 99.532 101.218 100.947 100.059 98.72 12:40 ZZZZZZ 98.621 101.843 101.166 103.921 100.513 99.471 102.079 97.284 ZZZZZZ 99.551 103.092 101.979 103.516 101.485 100.679 102.385 98.186 99.786 12:49 7.7.7.7.7.7 98.415 102.561 101.181 101.989 99.653 99.542 99.847 12:53 MA39257-CRI3 97.324 100.314 98.347 99.036 101.077 98.938 99.173 98.789 12:58 MA39257-CCVA3 95.529 101.325 99.701 99.338 100.458 99.027 97.134 97.204 13:02 MA39257-CCB3 99.516 97.991 98.58 98.903 97.36 98.007 97.07 96.898 13:07 ZZZZZZ 96.893 100.789 97.588 97.623 100.235 98.278 97.918 97.382 13:11 ZZZZZZ 94.625 99.568 97.214 97.629 100.626 97.936 97.049 96.477 13:15 94 758 98 585 97 243 98 407 99 25 96 975 97 416 96 791 7.7.7.7.7.7 13:20 ZZZZZZ 94.082 98.06 95.973 97.694 98.214 96.284 97.249 96.023 13:24 ZZZZZZ 94.627 98.85 96.778 99.248 98.361 96.291 98.33 96.588 13:29 22222 95 275 97 887 95 285 97 989 98 23 96 071 97 107 97 232 13:33 ZZZZZZ 93.787 97.155 96.248 97.378 97.718 96.459 96.613 95.467 13:38 MA39257-CRI4 94.277 97.68 96.454 96.824 98.34 95.295 97.003 96.323 MA39257-CCVA4 97.526 97.27 96.817 97.705 96.328 96.97 13:42 93.631 95.443 13:46 MA39257-CCB4 94.074 97.885 95.962 97.12 97.174 95.273 95.568 96.519 13:51 MP93316-MB1 94.075 99.216 95.881 92.44 98.383 95.708 93.248 96.852 13:55 MP93316-B1 94.089 98.583 95.701 96.862 98.769 96.548 97.089 94.829 14:00 MP93316-S1 90.807 97.598 95.865 95.687 98.747 97.175 95.936 93.386 14:04 MP93316-S2 90.451 97.946 97.377 96.725 99.192 98.769 96.31 93.057 97.235 14:09 JC18920-1 92.101 99.727 98.035 99.701 98.533 96.123 93.038 14:13 JC18920-2 94.279 100.518 99.673 99.151 100.329 98.669 98.061 94.128

99.034

100.481

98.935

97.392

94.904

99.486

# Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV Date Analyzed: 04/25/16

Analyst: JO Parameters: Pb Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Para	ameters: Pb								
Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
14:22	ZZZZZZ	95.294	101.499	100.374	99.449	100.25	99.848	98.294	93.958
14:26	ZZZZZZ	98.888	101.526	99.759	100.237	100.269	97.19	98.179	98.016
14:31	MA39257-CCVA5	95.825	99.441	97.275	98.616	98.813	97.691	96.532	95.307
14:35	MA39257-CCB5	93.938	97.253	96.519	96.666	97.269	96.107	95.754	95.04
14:40	MP93268-MB1	94.743	97.693	96.799	97.833	97.931	96.744	97.27	95.481
14:44	MP93268-B1	93.576	96.984	96.024	96.697	98.092	97.431	97.328	95.078
14:48	MP93268-B1	93.265	96.828	95.171	97.74	97.065	96.505	97.117	94.969
14:53	MP93268-S1	92.972	96.758	94.733	95.326	96.94	95.338	95.673	93.426
14:57	MP93268-S1	93.112	96.591	94.331	96.324	97.067	95.19	96.393	94.022
15:02	MP93268-S2	92.685	96.985	94.705	95.661	97.353	95.48	95.981	94.019
15:06	MP93268-S2	92.484	95.625	93.622	95.352	96.087	95.444	95.796	93.864
15:10	ZZZZZZ	92.103	95.537	93.263	95.232	96.385	93.795	95.088	95.117
15:15	ZZZZZZ	91.646	97.95	96.797	96.973	99.343	97.142	96.228	93.319
15:19	MA39257-CCVA6	92.497	96.016	94.988	96.294	96.399	94.496	95.038	93.117
15:24	MA39257-CCB6	86.121	90.554	93.764	96.934	89.512	93.977	94.837	88.777
15:28	JC18553-2	93.28	96.784	94.978	96.727	96.603	95.996	96.845	94.144
15:33	ZZZZZZ	92.881	98.834	96.75	97.98	97.07	96.676	96.393	92.624
15:37	ZZZZZZ	94.677	100.472	95.978	98.079	98.345	96.403	96.199	94.372
15:42	ZZZZZZ	92.33	100.935	95.876	96.553	95.979	93.114	94.526	90.315
15:46	ZZZZZZ	93.13	101.615	96.831	98.114	95.707	94.076	95.402	89.905
15:50	ZZZZZZ	97.068	99.181	97.022	97.555	98.901	96.048	97.61	95.476
15:55	ZZZZZZ	95.437	98.79	96.249	97.287	98.003	96.111	96.876	94.496
15:59	ZZZZZZ	96.029	98.838	96.377	98.236	98.992	96.413	97.457	94.774
16:04	ZZZZZZ	95.724	97.493	96.129	97.743	97.945	95.383	97.022	94.833
16:08	ZZZZZZ	95.399	97.767	95.569	97.613	98.051	95.708	97.906	95.525
16:12	MA39257-CCVA7	93.65	96.284	94.106	94.174	96.36	93.539	93.813	92.868
16:17	MA39257-CCB7	93.236	94.994	93.849	95.531	95.039	93.082	94.885	93.395
16:21	MP93282-MB1	94.696	96.052	94.852	96.561	96.39	95.029	96.33	94.902
16:26	MP93282-B1	94.163	96.671	94.559	95.969	96.496	95.149	95.214	93.303
16:30	MP93282-B1	94.026	96.324	93.431	95.237	96.77	94.027	96.648	93.833
16:35	MP93282-S1	92.556	96.653	94.099	96.182	94.969	93.346	94.058	87.946
16:39	MP93282-S1	95.823	99.887	96.796	98.26	98.748	96.76	97.3	92.782
16:44	MP93282-S2	94.223	98.401	94.228	96.097	96.602	93.153	94.683	89.354



# Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

Methods: EPA 200.8, SW846 6020A

File ID: XB042516M1.CSV Analyst: JO

Parameters: Pb

Date Analyzed: 04/25/16 Run ID: MA39257

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
16:48	MP93282-S2	94.098	97.91	95.148	95.795	96.323	93.342	94.456	90.821
16:52	ZZZZZZ	95.864	96.878	94.215	96.018	96.949	94.884	95.062	95.088
16:57	ZZZZZZ	94.914	97.52	94.99	95.953	97.098	94.847	95.928	94.284
17:01	MA39257-CCVA8	92.304	95.65	92.269	93.936	95.065	93.41	92.186	91.451
17:06	MA39257-CCB8	94.069	95.354	92.947	94.042	94.542	92.174	93.485	93.317
17:10	JC18565-1	94.269	95.752	93.781	95.887	96.662	93.288	94.88	94.003
17:15	ZZZZZZ	95.365	95.544	91.864	94.634	95.452	92.915	94.51	92.592
17:19	ZZZZZZ	94.469	96.058	92.912	95.747	96.532	93.547	95.435	92.767
17:23	ZZZZZZ	90.495	95.616	93.226	95.36	92.497	90.615	91.546	86.047
17:28	ZZZZZZ	92.545	96.901	92.636	94.064	94.339	90.68	91.044	86.005
17:32	ZZZZZZ	95.655	98.055	94.482	95.871	97.427	93.625	94.41	93.953
17:37	ZZZZZZ	92.681	96.603	93.593	95.64	93.653	91.201	91.997	86.349
17:41	ZZZZZZ	96.787	98.667	95.51	97.519	98.419	94.827	96.986	95.875
17:46	MA39257-CCVA9	94.16	95.047	92.044	92.438	95.057	92.14	92.153	91.583
17:50	MA39257-CCB9	91.763	94.197	90.452	91.494	93.653	91.211	90.988	91.727

<sup>! =</sup> Outside limits.

#### LEGEND:

TEGEND.		
Istd#	Parameter	Limits
Istd#1	Lithium	60-125 %
Istd#2	Scandium (45-1)	60-125 %
Istd#3	Scandium (45-2)	60-125 %
Istd#4	Scandium (45-3)	60-125 %
Istd#5	Germanium (74-1)	60-125 %
Istd#6	Germanium (74-2)	60-125 %
Istd#7	Germanium (74-3)	60-125 %
Istd#8	Rhodium (103-1)	60-125 %



# Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV Analyst: JO

Date Analyzed: 04/25/16

Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

	yst: JO meters: Pb			Run II	): MA39257				
Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
09:11	MA39257-STD1	100	100	100	100	100	100	100	100
09:15	MA39257-STD2	100	100	100	100	100	100	100	100
09:20	MA39257-STD3	100	100	100	100	100	100	100	100
09:24	MA39257-STD4	100	100	100	100	100	100	100	100
09:29	MA39257-STD5	100	100	100	100	100	100	100	100
09:33	MA39257-STD6	100	100	100	100	100	100	100	100
09:38	MA39257-STD7	99.49	99.036	101.362	100.354	101.067	100.723	98.983	100.211
09:42	MA39257-STD8	100.25	98.991	100.825	101.032	101.992	101.032	98.66	100.65
09:46	MA39257-STD9	99.944	99.005	100.24	99.983	101.084	101.14	99.55	99.766
09:51	MA39257-STD10	99.82	99.961	99.985	99.881	100.523	100.947	99.865	99.661
09:55	MA39257-STD11	99.24	98.965	99.414	99.281	101.673	100.657	99.377	100.003
10:00	MA39257-STD12	99.758	99.706	102.115	101.533	102.036	102.605	100.892	101.095
10:04	MA39257-STD13	97.975	98.153	99.138	98.083	100.545	99.314	99.622	100.152
10:08	MA39257-STD14	96.497	96.101	99.862	97.723	101.954	99.597	98.826	101.445
10:13	MA39257-STD15	94.799	94.314	97.141	96.946	100.704	99.006	97.989	99.491
10:23	MA39257-STD16	100	100	100	100	100	100	100	100
10:28	MA39257-ICVA1	98.648	98.466	98.68	99.463	100.47	100.068	101.859	100.783
10:32	MA39257-ICV1	98.486	99.709	98.873	98.608	98.209	98.015	100.31	98.526
10:36	MA39257-ICB1	99.263	100.543	99.816	98.603	100.008	98.898	101.318	100.866
10:41	MA39257-CRI1	99.331	100.003	99.403	98.887	99.536	99.129	101.453	100.624
10:45	MA39257-ICSA1	86.642	88.726	91.294	92.565	94.786	92.688	94.145	95.693
10:50	MA39257-ICSAB1	89.734	91.175	96.708	96.616	97.295	95.059	95.293	96.776
10:55	ZZZZZZ	103.733	101.166	107.272	105.604	103.523	100.753	97.906	103.541
10:59	ZZZZZZ	103.143	101.783	106.214	105.777	105.749	102.992	101.412	106.158
11:04	ZZZZZZ	103.205	103.738	105.348	104.361	103.453	100.68	100.901	102.521
11:13	ZZZZZZ	103.017	101.058	104.762	104.801	104.205	103.76	101.44	104.708
11:18	ZZZZZZ	101.651	99.954	103.153	102.691	103.209	101.806	100.173	104.616
11:28	MA39257-CCVA1	100.974	99.129	102.656	102.493	102.814	101.361	99.428	102.89
11:34	MA39257-CCB1	103.782	107.116	104.202	103.684	102.282	101.016	104.471	103.309
11:38	ZZZZZZ	No results	s reported	for the e	elements as	sociated w	ith this in	nternal sta	andard.
11:42	ZZZZZZ	No result	s reported	for the 6	elements as	sociated w	ith this in	nternal sta	andard.
11:47	ZZZZZZ	101.318	99.974	101.727	100.646	98.431	97.61	97.194	99.152
11:51	ZZZZZZ	102.559	101.377	103.676	102.427	100.237	99.396	98.228	101.25

### Login Number: JC18920 Account: PARS - PARS Environmental Services Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV Analyst: JO

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

	lyst: JO ameters: Pb			Run II	): MA39257				
Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
11:56	ZZZZZZ	100.734	99.58	103.272	101.18	100.512	97.442	96.683	99.939
12:00	ZZZZZZ	99.19	98.622	100.343	98.797	98.232	95.746	95.169	98.252
12:05	ZZZZZZ	98.692	99.073	100.033	99.175	97.601	95.426	96.458	98.614
12:09	ZZZZZZ	101.671	100.845	102.581	101.43	99.438	97.305	98.483	100.467
12:13	MA39257-CCVA2	98.581	98.402	101.365	99.823	100.899	98.432	98.718	100.606
12:18	MA39257-CCB2	102.344	101.967	102.867	100.825	100.453	98.299	99.968	101.833
12:22	ZZZZZZ	100.106	100.182	101.353	100.022	101.026	97.675	98.479	101.294
12:27	ZZZZZZ	98.981	98.774	99.961	98.745	97.595	95.556	96.613	98.459
12:31	ZZZZZZ	97.388	97.202	99.365	96.704	97.064	94.109	95.798	97.009
12:36	MA39257-CRI2	97.543	96.966	99.126	97.474	96.874	95.226	96.13	96.704
12:40	ZZZZZZ	97.486	97.522	96.703	96.806	95.306	94.148	95.212	95.29
12:44	ZZZZZZ	97.915	98.004	97.797	97.084	96.169	93.646	96.307	96.403
12:49	ZZZZZZ	98.183	97.103	98.734	97.725	96.949	94.802	95.766	97.537
12:53	MA39257-CRI3	96.828	96.77	98.774	96.958	96.613	94.318	95.793	96.695
12:58	MA39257-CCVA3	94.274	93.847	97.41	96.635	96.841	94.65	95.366	97.359
13:02	MA39257-CCB3	95.986	94.854	97.719	96.974	95.905	93.617	93.992	95.812
13:07	ZZZZZZ	95.408	95.291	98.132	95.595	96.538	94.732	95.387	96.626
13:11	ZZZZZZ	95.963	94.364	97.198	96.98	96.53	95.473	95.528	97.155
13:15	ZZZZZZ	94.967	93.982	96.964	96.493	96.372	94.369	96.016	96.875
13:20	ZZZZZZ	95.03	95.074	96.482	95.35	94.459	92.485	94.987	95.952
13:24	ZZZZZZ	95.869	96.838	96.924	96.268	95.085	93.751	95.742	95.487
13:29	ZZZZZZ	94.644	95.17	96.335	95.124	95.032	92.887	94.685	95.574
13:33	ZZZZZZ	94.279	94.621	95.917	95.181	94.549	91.56	93.843	94.012
13:38	MA39257-CRI4	95.195	94.491	96.125	96.507	95.221	93.185	94.985	95.227
13:42	MA39257-CCVA4	93.301	92.621	96.559	95.235	95.713	93.576	94.574	95.52
13:46	MA39257-CCB4	94.335	95.114	96.175	95.233	94.2	92.511	93.95	94.402
13:51	MP93316-MB1	94.844	89.156	96.702	95.809	94.569	91.984	89.04	95.08
13:55	MP93316-B1	93.976	94.293	95.735	95.688	94.799	93.169	95.033	95.59
14:00	MP93316-S1	91.467	90.448	95.304	95.693	96.751	94.187	95.082	97.267
14:04	MP93316-S2	91.656	90.186	95.251	96.737	95.651	94.573	95.018	95.56
14:09	JC18920-1	91.091	90.664	96.823	97.495	96.719	94.696	95.204	96.059
14:13	JC18920-2	91.372	90.058	96.599	98.546	96.657	94.605	95.867	96.734
14:17	ZZZZZZ	92.086	90.622	96.865	98.727	96.079	94.369	94.062	97.208

# Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Analyst: JO Parameters: Pb

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
14:22	ZZZZZZ	91.982	91.052	97.306	98.547	95.891	94.984	95.071	96.525
14:26	ZZZZZZ	95.155	95.146	96.809	96.95	93.571	92.325	94.35	94.27
14:31	MA39257-CCVA5	95.047	93.7	95.748	95.775	95.809	94.208	96.117	96.298
14:35	MA39257-CCB5	94.067	93.261	95.44	95.418	93.196	92.427	93.823	93.152
14:40	MP93268-MB1	95.103	95.634	97.017	96.329	93.457	92.61	95.053	94.337
14:44	MP93268-B1	94.449	93.898	95.701	96.088	94.155	93.962	95.215	94.577
14:48	MP93268-B1	95.089	93.647	95.057	95.563	94.249	93.685	95.563	94.868
14:53	MP93268-S1	93.321	92.152	94.875	94.841	94.69	93.478	94.506	94.783
14:57	MP93268-S1	93.858	93.581	94.506	95.739	93.238	93.037	94.498	93.476
15:02	MP93268-S2	93.732	92.304	94.802	94.773	93.986	93.077	93.89	94.883
15:06	MP93268-S2	93.517	92.656	94.714	94.697	94.138	92.677	93.4	94.168
15:10	ZZZZZZ	93.34	93.321	95.432	94.098	92.836	90.74	93.202	94.118
15:15	ZZZZZZ	90.693	90.228	96.196	96.538	96.055	93.982	95.731	96.018
15:19	MA39257-CCVA6	91.733	91.913	93.182	94.162	93.013	92.37	94.238	93.916
15:24	MA39257-CCB6	93.2	93.291	89.257	93.576	88.08	91.032	93.762	88.2
15:28	JC18553-2	93.91	93.199	95.359	96.336	94.53	92.271	94.387	94.451
15:33	ZZZZZZ	91.787	92.049	94.814	95.925	94.42	93.249	94.732	94.465
15:37	ZZZZZZ	92.677	92.59	96.783	95.673	95.837	92.664	95.069	96.516
15:42	ZZZZZZ	87.369	87.554	92.343	92.383	92.61	90.408	92.669	93.01
15:46	ZZZZZZ	88.592	88.511	92.562	92.471	92.85	90.619	93.158	92.615
15:50	ZZZZZZ	94.593	94.223	95.879	96.781	94.38	93.212	95.021	94.528
15:55	ZZZZZZ	93.629	93.653	96.391	96.215	93.917	92.857	94.856	93.822
15:59	ZZZZZZ	93.674	93.026	96.18	95.974	94.247	92.26	93.96	94.403
16:04	ZZZZZZ	94.349	93.846	96.158	96.019	93.39	91.884	94.973	93.42
16:08	ZZZZZZ	93.858	95.282	96.376	95.388	94.122	92.624	95.236	94.093
16:12	MA39257-CCVA7	91.061	90.028	93.839	92.892	93.73	91.421	92.424	94.163
16:17	MA39257-CCB7	92.209	92.997	94.341	93.372	92.234	90.396	92.653	92.443
16:21	MP93282-MB1	93.762	94.315	94.244	93.445	93.762	91.271	94.483	93.186
16:26	MP93282-B1	92.964	92.649	93.808	94.379	93.052	92.065	94.075	93.459
16:30	MP93282-B1	92.971	93.519	94.869	94.09	93.468	92.011	94.496	93.938
16:35	MP93282-S1	86.244	86.702	89.974	89.58	91.899	89.995	91.336	92.583
16:39	MP93282-S1	90.484	90.766	93.565	93.425	93.84	92.548	94.478	93.856
16:44	MP93282-S2	87.072	86.817	91.132	90.078	91.138	90.1	91.421	93.172



# Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Analyst: JO Parameters: Pb

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
16:48	MP93282-S2	88.543	88.502	91.868	91.092	92.641	89.982	92.265	93.003
16:52	ZZZZZZ	93.156	93.22	94.908	94.594	92.784	91.231	93.027	93.264
16:57	ZZZZZZ	92.949	93.673	94.572	93.038	92.011	90.715	93.324	92.605
17:01	MA39257-CCVA8	89.883	89.205	93.144	92.558	91.957	91.07	92.051	93.256
17:06	MA39257-CCB8	91.22	91.824	92.889	92.254	91.368	89.286	91.843	91.211
17:10	JC18565-1	92.572	93.512	93.823	92.989	91.683	90.409	93.296	92.509
17:15	ZZZZZZ	90.792	92.611	94.218	92.901	92.833	90.386	93.133	92.888
17:19	ZZZZZZ	92.029	92.054	93.86	93.259	92.587	90.475	92.799	92.856
17:23	ZZZZZZ	84.023	84.567	88.065	87.952	89.307	87.272	89.973	90.345
17:28	ZZZZZZ	84.381	83.893	88.187	88.196	89.032	87.167	89.369	90.09
17:32	ZZZZZZ	92.25	93.063	93.441	92.594	90.659	89.52	92.361	92.421
17:37	ZZZZZZ	84.619	85.02	88.546	88.698	89.181	87.409	89.857	90.337
17:41	ZZZZZZ	93.218	94.066	95.444	94.708	92.704	90.936	93.489	93.289
17:46	MA39257-CCVA9	90.419	90.183	92.636	92.055	93.03	90.446	92.792	93.938
17:50	MA39257-CCB9	90.222	88.584	92.274	91.643	90.357	88.695	88.995	90.372

<sup>! =</sup> Outside limits.

#### LEGEND:

песеир.		
Istd#	Parameter	Limits
Istd#9	Rhodium (103-2)	60-125 %
Istd#10	Rhodium (103-3)	60-125 %
Istd#11	Indium (115-1)	60-125 %
Istd#12	Indium (115-2)	60-125 %
Istd#13	Terbium (159-1)	60-125 %
Istd#14	Terbium (159-2)	60-125 %
Istd#15	Terbium (159-3)	60-125 %
Istd#16	Holmium (165-1)	60-125 %



# Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV Analyst: JO

Parameters: Pb

Date Analyzed: 04/25/16

Methods: EPA 200.8, SW846 6020A Run ID: MA39257

Time	Sample Description	Istd#17	Istd#18	Istd#19
09:11	MA39257-STD1	100	100	100
09:15	MA39257-STD2	100	100	100
09:20	MA39257-STD3	100	100	100
09:24	MA39257-STD4	100	100	100
09:29	MA39257-STD5	100	100	100
09:33	MA39257-STD6	100	100	100
09:38	MA39257-STD7	100.716	100.142	100.493
09:42	MA39257-STD8	101.299	102.384	102.182
09:46	MA39257-STD9	100.935	101.291	101.871
09:51	MA39257-STD10	101.142	100.701	101.818
09:55	MA39257-STD11	100.103	101.935	101.312
10:00	MA39257-STD12	101.935	101.097	101.01
10:04	MA39257-STD13	99.959	99.466	98.782
10:08	MA39257-STD14	100.432	99.102	97.975
10:13	MA39257-STD15	99.401	95.989	96.591
10:23	MA39257-STD16	100	100	100
10:28	MA39257-ICVA1	99.683	98.85	97.232
10:32	MA39257-ICV1	97.937	99.221	97.345
10:36	MA39257-ICB1	98.952	100.384	99.028
10:41	MA39257-CRI1	98.309	100.649	98.219
10:45	MA39257-ICSA1	92.665	88.373	84.368
10:50	MA39257-ICSAB1	94.29	88.673	85.193
10:55	ZZZZZZ	99.261	100.811	96.467
10:59	ZZZZZZ	102.913	101.727	98.682
11:04	ZZZZZZ	99.342	100.883	98.007
11:13	ZZZZZZ	103.172	100.381	98.222
11:18	ZZZZZZ	101.155	99.673	97.157
11:28	MA39257-CCVA1	101.322	98.592	97.384
11:34	MA39257-CCB1	100.029	100.599	98.427
11:38	ZZZZZZ	No result	s reported	for the elements associated with this internal standard.
11:42	ZZZZZZ	No result	s reported	for the elements associated with this internal standard.
11:47	ZZZZZZ	96.706	97.984	95.27
11:51	ZZZZZZ	98.24	100.012	96.744



# Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

Analyst: JO

Run ID: MA39257

File ID: XB042516M1.CSV Date Analyzed: 04/25/16 Methods: EPA 200.8, SW846 6020A

Para	meters: Pb			
Time	Sample Description	Istd#17	Istd#18	Istd#19
11:56	ZZZZZZ	96.673	99.064	95.546
12:00	ZZZZZZ	95.229	97.181	93.797
12:05	ZZZZZZ	94.613	96.4	93.323
12:09	ZZZZZZ	96.619	98.353	96.123
12:13	MA39257-CCVA2	97.626	97.459	94.353
12:18	MA39257-CCB2	98.418	99.914	96.626
12:22	ZZZZZZ	97.079	99.631	96.074
12:27	ZZZZZZ	95.476	97.73	94.254
12:31	ZZZZZZ	93.84	95.375	92.215
12:36	MA39257-CRI2	94.021	95.092	92.011
12:40	ZZZZZZ	93.253	96.885	93.713
12:44	ZZZZZZ	93.244	95.673	92.768
12:49	ZZZZZZ	94.316	95.669	92.431
12:53	MA39257-CRI3	93.331	95.777	92.405
12:58	MA39257-CCVA3	93.701	94.529	90.272
13:02	MA39257-CCB3	92.741	94.957	91.782
13:07	ZZZZZZ	93.676	95.521	92.532
13:11	ZZZZZZ	95.182	95.535	92.864
13:15	ZZZZZZ	93.899	95.262	92.073
13:20	ZZZZZZ	92.031	94.277	90.854
13:24	ZZZZZZ	92.821	94.802	91.894
13:29	ZZZZZZ	91.686	94.799	90.521
13:33	ZZZZZZ	90.59	92.921	90.524
13:38	MA39257-CRI4	92.326	94.165	91.41
13:42	MA39257-CCVA4	93.096	92.584	90.038
13:46	MA39257-CCB4	91.601	93.311	90.683
13:51	MP93316-MB1	91.785	94.895	91.081
13:55	MP93316-B1	92.649	93.657	92.137
14:00	MP93316-S1	94.349	91.47	89.54
14:04	MP93316-S2	94.065	90.908	88.575
14:09	JC18920-1	94.064	90.686	88.897
14:13	JC18920-2	93.967	90.83	89.128
14:17	ZZZZZZ	94.329	90.499	89.412



# Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV

Analyst: JO

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

	meters: Pb			Run ID. MAJJ257
Time	Sample Description	Istd#17	Istd#18	Istd#19
14:22	ZZZZZZ	94.439	88.692	88.537
14:26	ZZZZZZ	90.828	94.611	91.47
14:31	MA39257-CCVA5	94.119	93.202	91.099
14:35	MA39257-CCB5	91.456	93.006	90.812
14:40	MP93268-MB1	92.316	94.79	92.892
14:44	MP93268-B1	93.501	94.19	92.569
14:48	MP93268-B1	93.035	93.818	92.291
14:53	MP93268-S1	92.579	93.818	91.087
14:57	MP93268-S1	92.482	92.935	91.181
15:02	MP93268-S2	92.711	92.034	90.448
15:06	MP93268-S2	91.48	92.549	90.061
15:10	ZZZZZZ	90.315	92.608	89.215
15:15	ZZZZZZ	93.242	91.919	89.158
15:19	MA39257-CCVA6	92.34	90.168	88.782
15:24	MA39257-CCB6	89.673	86.627	89.312
15:28	JC18553-2	92.322	94.087	92.699
15:33	ZZZZZZ	92.623	93.171	91.137
15:37	ZZZZZZ	92.719	94.427	90.449
15:42	ZZZZZZ	90.112	88.617	85.047
15:46	ZZZZZZ	90.148	88.306	85.274
15:50	ZZZZZZ	92.733	94.205	92.051
15:55	ZZZZZZ	92.845	94.503	92.71
15:59	ZZZZZZ	91.629	93.615	90.965
16:04	ZZZZZZ	91.52	93.711	92.077
16:08	ZZZZZZ	92.415	93.365	92.161
16:12	MA39257-CCVA7	90.782	91.315	88.06
16:17	MA39257-CCB7	89.366	91.276	88.17
16:21	MP93282-MB1	91.1	93.653	90.167
16:26	MP93282-B1	92.476	91.68	90.478
16:30	MP93282-B1	91.665	93.349	90.165
16:35	MP93282-S1	89.774	85.816	83.4
16:39	MP93282-S1	92.157	89.671	87.068

16:44 MP93282-S2 89.542 86.253 83.76

# 6.7.7

#### INTERNAL STANDARD SUMMARY

### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV Analyst: JO

Parameters: Pb

Date Analyzed: 04/25/16

Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Time	Sample Description	Istd#17	Istd#18	Istd#19
16:48	MP93282-S2	90.288	87.835	85.832
16:52	ZZZZZZ	90.632	91.667	89.537
16:57	ZZZZZZ	90.419	92.299	89.7
17:01	MA39257-CCVA8	90.006	89.567	87.41
17:06	MA39257-CCB8	88.639	89.434	87.245
17:10	JC18565-1	89.916	92.102	89.453
17:15	ZZZZZZ	90.356	93.273	90.377
17:19	ZZZZZZ	89.96	91.927	88.943
17:23	ZZZZZZ	86.813	83.144	80.617
17:28	ZZZZZZ	87.064	83.366	80.131
17:32	ZZZZZZ	89.576	91.074	88.38
17:37	ZZZZZZ	87.072	84.073	80.782
17:41	ZZZZZZ	90.189	92.321	88.342
17:46	MA39257-CCVA9	90.008	90.445	87.533
17:50	MA39257-CCB9	88.25	89.782	86.959

<sup>! =</sup> Outside limits.

#### LEGEND:

Istd#	Parameter	Limits		
Istd#17	Holmium (165-	2)	60-125	용
Istd#18	Bismuth (209-	1)	60-125	용
Tstd#19	Bismuth (209-	2)	60-125	8

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# BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV Date Analyzed: 04/25/16 Methods: EPA 200.8, SW846 6020A QC Limits: result < RL Run ID: MA39257 Units: ug/1

Time: Sample ID:			10:36 ICB1		11:34 CCB1		12:18 CCB2		13:02 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	25	.34								
Antimony	2.0	.12	anr							
Arsenic	0.50	.025	anr							
Barium	1.0	.011								
Beryllium	0.50	.004	anr							
Boron	25	3.2								
Cadmium	0.50	.011	anr							
Calcium	250	2.7								
Chromium	1.0	.016	anr							
Cobalt	0.50	.003								
Copper	2.0	.1	anr							
Iron	25	.51	anr							
Lead	0.50	.009	-0.0015	<0.50	0.0080	<0.50	0.016	<0.50	0.0096	<0.50
Magnesium	250	.39								
Manganese	1.0	.02	anr							
Molybdenum	1.0	.02								
Nickel	1.0	.025	anr							
Potassium	250	4.9								
Selenium	0.50	.031	anr							
Silver	0.50	.019	anr							
Sodium	250	8.7								
Strontium	5.0	.009								
Thallium	0.50	.016	anr							
Tin	5.0	.019								
Titanium	1.0	.047								
Vanadium	1.0	.045								
Zinc	5.0	.11	anr							

(\*) Outside of QC limits (anr) Analyte not requested

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ACCUTEST

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV QC Limits: result < RL

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A Units: ug/l

Time: Sample ID:			13:46 CCB4		14:35 CCB5	
Metal	RL	IDL	raw	final	raw	final
Aluminum	25	.34				
Antimony	2.0	.12	anr			
Arsenic	0.50	.025	anr			
Barium	1.0	.011				
Beryllium	0.50	.004	anr			
Boron	25	3.2				
Cadmium	0.50	.011	anr			
Calcium	250	2.7				
Chromium	1.0	.016	anr			
Cobalt	0.50	.003				
Copper	2.0	.1	anr			
Iron	25	.51	anr			
Lead	0.50	.009	0.024	<0.50	0.024	<0.50
Magnesium	250	.39				
Manganese	1.0	.02	anr			
Molybdenum	1.0	.02				
Nickel	1.0	.025	anr			
Potassium	250	4.9				
Selenium	0.50	.031	anr			
Silver	0.50	.019	anr			
Sodium	250	8.7				
Strontium	5.0	.009				
Thallium	0.50	.016	anr			
Tin	5.0	.019				
Titanium	1.0	.047				
Vanadium	1.0	.045				
Zinc	5.0	.11	anr			

(\*) Outside of QC limits (anr) Analyte not requested

SGS ACCUTEST

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Units: ug/l

Time: Sample ID: Metal		10:28 ICVA1 Results	% Rec	ICV True	10:32 ICV1 Results	% Rec	CCVA True	11:28 CCVA1 Results	% Rec	
Aluminum										
Antimony	anr									
Arsenic	anr									
Barium										
Beryllium	anr									
Boron										
Cadmium	anr									
Calcium										
Chromium	anr									
Cobalt										
Copper	anr									
Iron	anr									
Lead	60	57.9	96.5				50	50.3	100.6	
Magnesium										
Manganese	anr									
Molybdenum										
Nickel	anr									
Potassium										
Selenium	anr									
Silver	anr									
Sodium										
Strontium										
Thallium	anr									
Tin										
Titanium										
Vanadium										
Zinc	anr									

(\*) Outside of QC limits (anr) Analyte not requested



#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Units: ug/l

Time: Sample ID: Metal	CCVA True	12:13 CCVA2 Results	% Rec	CCVA True	12:58 CCVA3 Results	% Rec	CCVA True	13:42 CCVA4 Results	% Rec	
Aluminum										
Antimony	anr									
Arsenic	anr									
Barium										
Beryllium	anr									
Boron										
Cadmium	anr									
Calcium										
Chromium	anr									
Cobalt										
Copper	anr									
Iron	anr									
Lead	50	49.7	99.4	50	49.4	98.8	50	49.7	99.4	
Magnesium										
Manganese	anr									
Molybdenum										
Nickel	anr									
Potassium										
Selenium	anr									
Silver	anr									
Sodium										
Strontium										
Thallium	anr									
Tin										
Titanium										
Vanadium										
Zinc	anr									

(\*) Outside of QC limits (anr) Analyte not requested

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Units: ug/l

Met	Time: Sample ID:	CCVA True	14:31 CCVA5 Results	% Rec
<u> </u>	minum			7 1100
Ant	imony	anr		
Ars	enic	anr		
Bar	ium			
Ber	yllium	anr		
Bor	on			
Cad	mium	anr		
Cal	cium			
Chr	omium	anr		
Cob	alt			
Cop	per	anr		
Iro	n	anr		
Lea	d	50	49.4	98.8
Mag	nesium			
Man	ganese	anr		
Mol	ybdenum			
Nic	kel	anr		
Pot	assium			
Sel	enium	anr		
Sil	ver	anr		
Sod	ium			
Str	ontium			
Tha	llium	anr		
Tin				
Tit	anium			
Van	adium			
Zin	С	anr		

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

## Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV QC Limits: 70 to 130 % Recovery Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Units: ug/l

QC DIMITOD 70		110001017		11011 1						
Time: Sample ID: Metal		CRIA True	10:41 CRI1 Results	% Rec	12:36 CRI2 Results	% Rec	12:53 CRI3 Results	% Rec	13:38 CRI4 Results	% Rec
Aluminum	25	25								
Antimony	2.0	0.25	anr							
Arsenic	0.50	0.50	anr							
Barium	1.0	0.50								
Beryllium	0.50	0.25	anr							
Boron	25	2.5								
Cadmium	0.50	0.25	anr							
Calcium	250	125								
Chromium	1.0	2.0	anr							
Cobalt	0.50	0.25								
Copper	2.0	2.0	anr							
Iron	25	25	anr							
Lead	0.50	0.25	0.50	100.0	0.50	100.0	0.48	96.0	0.50	100.0
Magnesium	250	125								
Manganese	0.50	0.25	anr							
Molybdenum	1.0	0.50								
Nickel	1.0	2.0	anr							
Potassium	250	125								
Selenium	0.50	0.50	anr							
Silver	0.50	1.0	anr							
Sodium	250	125								
Strontium	5.0	0.50								
Thallium	0.50	0.25	anr							
Tin	5.0	0.50								
Titanium	1.0	0.50								
Vanadium	1.0	2.0								
Zinc	5.0	2.0	anr							

(\*) Outside of QC limits (anr) Analyte not requested

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## INTERFERING ELEMENT CHECK STANDARDS SUMMARY Part 1 - ICSA and ICSAB Standards

#### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

File ID: XB042516M1.CSV QC Limits: 80 to 120 % Recovery Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Units: ug/l

QC 21100 00		necovery		11011 1	1110720	•
Time: Sample ID: Metal		ICSAB True	10:45 ICSA1 Results	% Rec	10:50 ICSAB1 Results	% Rec
Aluminum	100000	100000	97500	97.5	99600	99.6
Antimony			-0.033		-0.050	
Arsenic		20	0.11		18.4	92.0
Barium			0.13		0.16	
Beryllium			0.011		0.0079	
Boron			3.6		1.6	
Cadmium		20	0.80		18.9	94.5
Calcium	100000	100000	94300	94.3	96900	96.9
Chromium		20	1.2		19.2	96.0
Cobalt		20	0.024		17.5	87.5
Copper		20	0.61		16.9	84.5
Iron	100000	100000	87600	87.6	87500	87.5
Lead			0.20		0.21	
Magnesium	100000	100000	90800	90.8	92600	92.6
Manganese		20	0.34		18.8	94.0
Molybdenum	2000	2000	1880	94.0	1930	96.5
Nickel		20	0.22		16.9	84.5
Potassium	100000	100000	99600	99.6	103000	103.0
Selenium		20	0.027		18.1	90.5
Silver		20	0.024		19.1	95.5
Sodium	100000	100000	95300	95.3	97000	97.0
Strontium			0.73		0.75	
Thallium			0.017		0.0040	
Tin			0.16		0.12	
Titanium	2000	2000	2000	100.0	2030	101.5
Vanadium		20	0.10		20.3	101.5
Zinc		20	1.1		17.1	85.5

(\*) Outside of QC limits (anr) Analyte not requested

SGS 37 of 41
ACCUTEST

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

#### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

QC Batch ID: MP93316 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/25/16

					- , -, -
Metal	RL	IDL	MDL	MB raw	final
Antimony	0.0020	.00012	.00021		
Barium	0.0010	.000011	.000044		
Beryllium	0.00030	.000004	.000079		
Boron	0.050	.0032			
Calcium	0.25	.0027	.0075		
Lead	0.00050	.000009	.000018	0.000012	<0.00050
Molybdenum	0.0010	.00002	.000059		
Silver	0.0020	.000019	.000022		
Strontium	0.0010	.000009	.000014		
Thallium	0.00050	.000016	.0001		
Tin	0.0010	.000039	.000043		

Associated samples MP93316: JC18920-1, JC18920-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

QC Batch ID: MP93316 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

04/25/16 Prep Date:

Metal	JC18920 Origina		Spikelot MPXDW7	% Rec	QC Limits
Antimony					
Barium					
Beryllium					
Boron					
Calcium					
Lead	0.011	0.11	0.10	99.0	70-130
Molybdenum					
Silver					
Strontium					
Thallium					
Tin					

Associated samples MP93316: JC18920-1, JC18920-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested



#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

QC Batch ID: MP93316 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/25/16

Metal	JC18920- Origina		Spikelot MPXDW7	% Rec	MSD RPD	QC Limit
Antimony						
Barium						
Beryllium						
Boron						
Calcium						
Lead	0.011	0.11	0.10	99.0	0.0	20
Molybdenum						
Silver						
Strontium						
Thallium						
Tin						

Associated samples MP93316: JC18920-1, JC18920-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested



#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

### Login Number: JC18920

Account: PARS - PARS Environmental Services
Project: WWP Schools-Grover Middle, 10 Southfield Road, West Windsor, NJ

QC Batch ID: MP93316 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

04/25/16 Prep Date:

Metal	BSP Result	Spikelot MPXDW7	% Rec	QC Limits
Antimony				
Barium				
Beryllium				
Boron				
Calcium				
Lead	0.094	0.10	94.0	85-115
Molybdenum				
Silver				
Strontium				
Thallium				
Tin				

Associated samples MP93316: JC18920-1, JC18920-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 





# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT THOMAS GROVER MIDDLE SCHOOL APRIL 2016

# APPENDIX B LABORATORY CERTIFICATION

# State of New Jersey Department of Environmental Protection Certifies That SGS Accutest Inc. – Wheat Ridge

Laboratory Certification ID # CO007

is hereby approved as a

Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2016



Mille M. Pott p get

Joseph F. Aiello Assistant Director

NJDEP is a NELAP Recognized Accreditation Body



# State of New Jersey Department of Environmental Protection Certifies That SGS Accutest Inc. - Dayton Laboratory Certification ID # 12129

is hereby approved as a

# Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2016



Muhile M. Pott pr 324

Joseph F. Aiello Assistant Director



NJDEP is a NELAP Recognized Accreditation Body



# LEAD IN DRINKING WATER TESTING REPORT

WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT HIGH SCHOOL NORTH 90 GROVERS MILL ROAD PLAINSBORO, NEW JERSEY 08536

#### PREPARED FOR:

West Windsor-Plainsboro Regional School District 505 Village Road West PO Box 505 West Windsor, New Jersey 08550

#### PREPARED BY:

PARS Environmental, Inc. 500 Horizon Drive, Suite 540 Robbinsville, New Jersey 08691

Tel: 609-890-7277 Fax: 609-890-9116

PARS Project No. 565-84

**April 2016** 



LABORATORY CERTIFICATION

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT HIGH SCHOOL NORTH APRIL 2016

#### **PARS**

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**PARS** 

#### **EXECUTIVE SUMMARY**

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at High School North (HSN). PARS conducted the lead in drinking water testing on March 31, 2016. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the United States Environmental Protection Agency (USEPA) 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (USEPA 3Ts). PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

#### **FINDINGS**

The USEPA National Primary Drinking Water Regulations requires that immediate action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 milligrams per liter (mg/l). Exceedance of the 0.015 mg/l action level was not identified in HSN. A total of 15 water samples were collected and analyzed.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.



**PARS** 

#### 1.0 INTRODUCTION

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at High School North (HSN). The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the *USEPA 3Ts*. PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

Sampling methodology is described in Section 2.0, the Lead in Drinking Water Findings are discussed in Section 3.0, and the Conclusions and Recommendations are presented in Section 4.0. A list of the sample locations and results are provided in **Table 1**. The Laboratory Analytical Report and Laboratory NELAC Certification are provided in **Appendix A** and **B**, respectively.

This report is intended for the sole use of WWP. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations, is at risk of said user.



**PARS** 

#### 2.0 LEAD IN DRINKING WATER SAMPLING

PARS conducted lead in drinking water testing at the HSN on March 31, 2016. The lead in drinking water sampling was conducted by Christa Casciolini and Melissa Konieczny of PARS.

PARS performed lead in drinking water testing at a total of nine (9) drinking water fountains (bubbler and cooler units) and six (6) faucets in the nurse's office, home economics, teacher's room, classroom, and kitchen locations in the HSN.

All samples were collected following the USEPA First Draw sampling protocol. The First Draw sample collection occurred in the morning prior to the facility opening and before any water was drawn in the building, including toilet flushing. The water was unused for six (6) to eight (8) hours prior to collection. Arrangements were made to sample the water outlets prior to the arrival of teachers and students.

The samples were placed in pre-preserved plastic bottles and submitted for laboratory analysis to SGS Accutest for two-week turnaround. SGS Accutest is a New Jersey Department of Environmental Protection (NJDEP) certified laboratory for lead in drinking water (NELAC #CO007). All samples were analyzed using USEPA Method 200.8 for the determination of trace elements in waters and wastes by inductively coupled plasma – mass spectrometry (ICP-MS). Chain-of-custody protocols were followed.



**PARS** 

#### 3.0 LEAD IN DRINKING WATER FINDINGS

Based on the laboratory analytical results, lead concentrations exceeding 0.015 mg/l action level were not identified in the 15 water samples collected at HSN.

Lead in drinking water tabulated results for HSN are provided in **Table 1**. The laboratory analytical report is included in **Appendix A.** The laboratory certification is included in **Appendix B**.



**PARS** 

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

A total of nine (9) drinking water fountains and six (6) faucets in the nurse's office, home economics, teacher's room, classroom, and kitchen locations were tested at the HSN. USEPA recommends that action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 mg/l. None of the 15 outlets sampled in the HSN exceeded the 0.015 mg/l action level.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.

-000-

PARS appreciates the opportunity to assist West Windsor-Plainsboro Regional School District with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

PARS ENVIRONMENTAL, INC.

Christa M. Casciolini **Project Geologist** 

Margaret Halasnik

Principal Industrial Hygienist

Margaret Halasin





# TABLE 1 DRINKING WATER RESULTS TABLE

#### TABLE 1

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT

NORTH HIGH SCHOOL APRIL 2016

All samples are primary (first draw) samples.

All faucets sampled are cold water, unless noted.

EPA Action limit = 0.015 milligrams per liter (mg/l)

School:	North High Sch	noal				1						
ampling Date:	3/31/2016	1001										
	3/31/2016											
Exceeds EPA Action Limit ( > 0.015 mg/l) Hit = result > 0.00050 detection limit												
											45 0040 40 50	
Accutest Mountain States	I									Ар	or 15, 2016 16:53 p	
Job Number:	D81334											
Account:		ARS Environmental Services										
Project:	•	II, West Windsor-Plain	nsboro, NJ									
Project Number:	NHS											
										Legend:	Hit	
		NHS-01-HTHF-DW-				NHS-01-A109-TF-		NHS-01-MGYM-DW		NHS-01-SGYM-DW-		
Client Sample ID:		NHS-01-HTHE-DW-	NHS-01-NVR-NS-P	NHS-01-105-EC-P	NHS-01-111-CF-P		NHS-01-KIT-KC-P		NHS-01-402-DW-P		NHS-01-BL-DW-	
		Р				Р		Р		Р		
Lab Sample ID:		D81334-1	D81334-2	D81334-3	D81334-4	D81334-5	D81334-6	D81334-7	D81334-8	D81334-9	D81334-10	
Date Sampled:		3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	
Metals Analysis												
Lead	mg/l	0.001	0.0011	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	<0.00050	
							I.					
			NHS-02-HA211-	NHS-02-A208-TF-	NHS-02-HA203-	NHS-02-H207-DW-						
Client Sample ID:		NHS-01-TGL-DW-P	DW-P	P	DW-P	P						
Lab Sample ID:		D81334-11	D81334-12	D81334-13	D81334-14	D81334-15						
Date Sampled:		3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016						
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water						
Maula.		Dilliking Water	Dilliking Water	Dilliking Water	Dilliking Water	Dilliking Water						
Metals Analysis												
Wictais Allalysis												
Lead	mg/l	<0.00050	<0.00050	<0.00050	<0.00050	0.00099	1	ı	ı	1	Τ	
Leau	mg/i	<0.00050	<0.00000	<0.00050	₹0.00030	0.00099				<u>.</u>		
Client Sample ID Format:		-Outlet-Sample Type										
PI	D			O-41-4-		C						

Floor: Outlet: Sample Type: 01 = First floor### = Room number ### BF = Bathroom faucet P = Primary (first draw) sample ###-### = Sample between room number ### and room # CF = Classroom faucet F = Flush sample 02 = Second floor H### = Hallway by room number ### DW= Drinking water bubbler BL = Boy's locker room EC = Home economics room, cold CAF = Cafeteria KC = Kitchen faucet, cold

SGYM = Small gym

TGL = Team girl's locker room

TL = Teacher's lounge

TP = Teacher's prep room

PLR = Pool Locker room

FR = Faculty room

LC = Lounge faucet, cold

GL = Girl's locker room

NS = Nurse's office sink

KIT = Kitchen

WC = Water cooler (chiller unit)

MGYM = Main gym

MO = Main office

NUR = Nurse's office





# APPENDIX A LABORATORY ANALYTICAL REPORT



# ACCUTEST Mountain States

04/15/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

#### Technical Report for

#### **PARS** Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ

**NHS** 

SGS Accutest Job Number: D81334

Sampling Date: 03/31/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 ccasciolini@ParsEnviro.com

ATTN: Crista Casciolini

Total number of pages in report: 46



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman Laboratory Director

Seed add

Client Service contact: Cristina Araujo 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY

CO (CO00049), EPA 515.4 Provisional

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.

Test results relate only to samples analyzed.

SGS

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### **Sample Summary**

Job No:

D81334

PARS Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ Project No: NHS

C1-	C-ll4-1			N/-4	•	Client
Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
D81334-1	03/31/16	06:49 MK	04/01/16	DW	Drinking Water	NHS-01-HTHE-DW-P
D81334-2	03/31/16	06:53 MK	04/01/16	DW	Drinking Water	NHS-01-NVR-NS-P
D81334-3	03/31/16	06:56 MK	04/01/16	DW	Drinking Water	NHS-01-105-EC-P
D81334-4	03/31/16	07:00 MK	04/01/16	DW	Drinking Water	NHS-01-111-CF-P
D81334-5	03/31/16	07:04 MK	04/01/16	DW	Drinking Water	NHS-01-A109-TF-P
D81334-6	03/31/16	07:14 MK	04/01/16	DW	Drinking Water	NHS-01-KIT-KC-P
D81334-7	03/31/16	07:19 MK	04/01/16	DW	Drinking Water	NHS-01-MGYM-DW-P
D81334-8	03/31/16	07:23 MK	04/01/16	DW	Drinking Water	NHS-01-402-DW-P
D81334-9	03/31/16	07:25 MK	04/01/16	DW	Drinking Water	NHS-01-SGYM-DW-P
D81334-10	03/31/16	07:29 MK	04/01/16	DW	Drinking Water	NHS-01-BL-DW-P
D81334-11	03/31/16	07:36 MK	04/01/16	DW	Drinking Water	NHS-01-TGL-DW-P
D81334-12	03/31/16	07:44 MK	04/01/16	DW	Drinking Water	NHS-02-HA211-DW-P
D81334-13	03/31/16	07:47 MK	04/01/16	DW	Drinking Water	NHS-02-A208-TF-P



# Sample Summary (continued)

PARS Environmental Services

Job No: D81334

WWP Regional, West Windsor-Plainsboro, NJ Project No: NHS

Sample	Collected			Matr	rix	Client		
Number	Date	Time By	Received	Code	e Type	Sample ID		
D81334-14	03/31/16	07:52 MK	04/01/16	DW	Drinking Water	NHS-02-HA203-DW-P		
D81334-15	03/31/16	07:54 MK	04/01/16	DW	Drinking Water	NHS-02-H207-DW-P		

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No D81334

Site: WWP Regional, West Windsor-Plainsboro, NJ Report Date 4/15/2016 4:50:17 PM

On 04/01/2016, 15 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.4 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D81334 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

#### Metals By Method EPA 200.8

Matrix: DW Batch ID: MP18454

- If required based on the turbidity results, all samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81334-1MS, D81334-1MSD were used as the QC samples for the metals analysis.

Matrix: DW Batch ID: MP18455

- If required based on the turbidity results, all samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81334-11MS, D81334-11MSD were used as the QC samples for the metals analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

SGS 5 of 46

**Summary of Hits Job Number:** D81334

Job Number: D81334
Account: PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/31/16

Lab Sample ID Client Sample ID Result/ RL MDL Method Analyte Qual Units D81334-1 NHS-01-HTHE-DW-P 0.0010 0.00050 Lead mg/l EPA 200.8 NHS-01-NVR-NS-P D81334-2 Lead 0.0011 0.00050 EPA 200.8 mg/1

D81334-3 NHS-01-105-EC-P

No hits reported in this sample.

D81334-4 NHS-01-111-CF-P

No hits reported in this sample.

D81334-5 NHS-01-A109-TF-P

No hits reported in this sample.

D81334-6 NHS-01-KIT-KC-P

No hits reported in this sample.

D81334-7 NHS-01-MGYM-DW-P

No hits reported in this sample.

D81334-8 NHS-01-402-DW-P

No hits reported in this sample.

D81334-9 NHS-01-SGYM-DW-P

No hits reported in this sample.

D81334-10 NHS-01-BL-DW-P

No hits reported in this sample.

D81334-11 NHS-01-TGL-DW-P

No hits reported in this sample.

Page 2 of 2

**Summary of Hits Job Number:** D81334

**Account:** PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/31/16

Lab Sample ID Client Sample ID Result/ Analyte Qual RL MDL Units Method

D81334-12 NHS-02-HA211-DW-P

No hits reported in this sample.

D81334-13 NHS-02-A208-TF-P

No hits reported in this sample.

D81334-14 NHS-02-HA203-DW-P

No hits reported in this sample.

D81334-15 NHS-02-H207-DW-P

Lead 0.00099 0.00050 mg/l EPA 200.8

SGS 7 of 46
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# Section 4

Sample Results	
Report of Analysis	

### **Report of Analysis**

Client Sample ID: NHS-01-HTHE-DW-P

Lab Sample ID:D81334-1Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0010	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18454

RL = Reporting Limit



### **Report of Analysis**

Client Sample ID: NHS-01-NVR-NS-P

Lab Sample ID: D81334-2 **Date Sampled:** 03/31/16 Matrix: **Date Received:** 04/01/16 DW - Drinking Water Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0011	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216 (2) Prep QC Batch: MP18454

RL = Reporting Limit



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Page 1 of 1

### **Report of Analysis**

Client Sample ID: NHS-01-105-EC-P

Lab Sample ID:D81334-3Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18454

RL = Reporting Limit

### **Report of Analysis**

Client Sample ID: NHS-01-111-CF-P

Lab Sample ID:D81334-4Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18454

RL = Reporting Limit



### **Report of Analysis**

Client Sample ID: NHS-01-A109-TF-P

Lab Sample ID:D81334-5Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18454

RL = Reporting Limit

### **Report of Analysis**

Client Sample ID: NHS-01-KIT-KC-P

Lab Sample ID:D81334-6Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18454

RL = Reporting Limit

### **Report of Analysis**

Client Sample ID: NHS-01-MGYM-DW-P

Lab Sample ID:D81334-7Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18454

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

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### **Report of Analysis**

Client Sample ID: NHS-01-402-DW-P

Lab Sample ID: D81334-8 **Date Sampled:** 03/31/16 Matrix: **Date Received:** 04/01/16 DW - Drinking Water Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216 (2) Prep QC Batch: MP18454

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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# **Report of Analysis**

Client Sample ID: NHS-01-SGYM-DW-P

Lab Sample ID:D81334-9Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18454

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



# **Report of Analysis**

Client Sample ID: NHS-01-BL-DW-P

Lab Sample ID:D81334-10Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18454

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

# **Report of Analysis**

Client Sample ID: NHS-01-TGL-DW-P

Lab Sample ID:D81334-11Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18455

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



# **Report of Analysis**

ort of Analysis

Client Sample ID: NHS-02-HA211-DW-P

Lab Sample ID:D81334-12Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18455

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

# **Report of Analysis**

Client Sample ID: NHS-02-A208-TF-P

Lab Sample ID:D81334-13Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18455

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



# **Report of Analysis**

Client Sample ID: NHS-02-HA203-DW-P

Lab Sample ID:D81334-14Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18455

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



# **Report of Analysis**

Client Sample ID: NHS-02-H207-DW-P

Lab Sample ID:D81334-15Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.00099	0.015	0.0005	50 mg/l	1	04/13/16	04/15/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7216(2) Prep QC Batch: MP18455

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)





# Section 5

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**D81334: Chain of Custody** Page 2 of 3

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## . .

## **SGS Accutest Sample Receipt Summary**

Comments

Job Number: D81334	Client:	PARS	Project: WWP REGIONAL	_ NHS
Date / Time Received: 4/1/201	6 9:50:00 AM	Delivery Method:	Airbill #'s: fx	
Cooler Temps (Initial/Adjusted):	#1: (2.4/2.4);			
Cooler Security  1. Custody Seals Present: 2. Custody Seals Intact:	r N 3. COC Pre 4. Smpl Dates.		Sample Integrity - Documentation  1. Sample labels present on bottles:	<u>Y or N</u> ✓ □  ✓ □
•	Y or N		Container labeling complete:     Sample container label / COC agree:	
Temp criteria achieved:     Cooler temp verification:     Cooler media:     No. Coolers:	Bar Therm; Ice (Bag)		Sample Integrity - Condition  1. Sample recvd within HT:  2. All containers accounted for:  3. Condition of sample:	Y or N  V   Intact
Trip Blank present / cooler:     Trip Blank listed on COC:	<u>Y</u> or N N/A  □ □ □ ✓  □ □ ✓		Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis:	Y or N N/A  ☑ □ □ ☑  ☑ ☑ ☑ □
4. VOCs headspace free:			4. Compositing instructions clear: 5. Filtering instructions clear:	

D81334: Chain of Custody Page 3 of 3



Section 6

## Metals Analysis

## QC Data Summaries

## Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

# SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81334 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041516DW.REP Date Analyzed: 04/15/16 Methods: EPA 200.8 Analyst: RM Run ID: MA7216

Anaı	. y 5	ι.	L(I,I	
Para	me	t.er	s:	Pb

Para	meters: Pb			
Time	Sample Description	Dilutior Factor	n PS Recov	Comments
13:15	ZZZZZZ	1		
13:18	ZZZZZZ	1		
13:21	MA7216-STD1	1		STDBLK
13:25	MA7216-STD2	1		STD1
13:28	MA7216-STD3	1		STD2
13:31	MA7216-STD4	1		STD3
13:34	MA7216-CRI1	1		Possible analytical problem. See rerun.
13:38	MA7216-CRI2	1		
13:41	MA7216-ICV1	1		
13:44	MA7216-CCV1	1		
13:47	MA7216-CCB1	1		
13:50	MP18454-MB1	1		
13:53	MP18454-B1	1		
13:56	D81334-1	1		
13:59	MP18454-S1	1		
14:03	MP18454-S2	1		
14:06	D81334-2	1		
14:09	MA7216-CCV2	1		
14:12	MA7216-CCB2	1		
14:15	D81334-3	1		
14:18	D81334-4	1		
14:21	D81334-5	1		
14:24	D81334-6	1		
14:27	D81334-7	1		
14:30	D81334-8	1		
14:33	D81334-9	1		
14:36	D81334-10	1		
14:39	MP18455-MB1	1		
14:42	MP18455-B1	1		
14:45	MA7216-CCV3	1		
14:49	MA7216-CCB3	1		
14:52	D81334-11	1		
14:55	MP18455-S1	1		

SGS 29 of 46
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#### SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81334

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041516DW.REP Analyst: RM

Date Analyzed: 04/15/16 Methods: EPA 200.8 Run ID: MA7216 Parameters: Pb

Refer to raw data for calibration curve and standards.

Time	Sample Description	Dilution PS Factor Recov	Comments
14:58	MP18455-S2	1	
15:01	D81334-12	1	
15:04	D81334-13	1	
15:07	D81334-14	1	
15:10	D81334-15	1	
15:13	MP18420-MB1	1	
15:16	MP18420-B1	1	
15:19	D81332-1	1	(sample used for QC only; not part of login D81334)
15:22	MA7216-CCV4	1	
15:25	MA7216-CCB4	1	
15:28	MP18420-S1	1	
15:32	MP18420-S2	1	
15:35	ZZZZZZ	1	
15:38	ZZZZZZ	1	
15:41	ZZZZZZ	1	
15:44	ZZZZZZ	1	
15:47	ZZZZZZ	1	
15:50	ZZZZZZ	1	
15:53	ZZZZZZ	1	
15:56	ZZZZZZ	1	
15:59	MA7216-CCV5	1	
16:02	MA7216-CCB5	1	
16:05	ZZZZZZ	1	
Last r		1 e/prep for job D8 1	not needed 1334
	MA7216-CCB6 reportable CCB fo	1 or job D81334	

#### INTERNAL STANDARD SUMMARY

## Login Number: D81334 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041516DW.REP Date Analyzed: 04/15/16 Methods: EPA 200.8 Run ID: MA7216

Analyst: RM Parameters: Pb

Para	meters: Pb		
Time	Sample Description	Istd#1	Istd#2
13:15	ZZZZZZ	308573	283629
13:18	ZZZZZZ	301829	278572
13:21	MA7216-STD1	310219 R	281224 R
13:25	MA7216-STD2	307897	280508
13:28	MA7216-STD3	301836	268974
13:31	MA7216-STD4	284337	258740
13:34	MA7216-CRI1	282156	260836
13:38	MA7216-CRI2	288754	264238
13:41	MA7216-ICV1	290200	263206
13:44	MA7216-CCV1	297691	265137
13:47	MA7216-CCB1	280480	259905
13:50	MP18454-MB1	268704	242373
13:53	MP18454-B1	274899	244638
13:56	D81334-1	283537	241275
13:59	MP18454-S1	275239	241090
14:03	MP18454-S2	282711	243100
14:06	D81334-2	276656	240772
14:09	MA7216-CCV2	295575	265356
14:12	MA7216-CCB2	281422	261298
14:15	D81334-3	270406	235770
14:18	D81334-4	266242	232292
14:21	D81334-5	274439	235624
14:24	D81334-6	275101	234138
14:27	D81334-7	271084	232843
14:30	D81334-8	273609	237108
14:33	D81334-9	273463	237830
14:36	D81334-10	274890	237775
14:39	MP18455-MB1	273673	246249
14:42	MP18455-B1	275348	242993
14:45	MA7216-CCV3	291939	261555
14:49	MA7216-CCB3	283723	259344
14:52	D81334-11	279251	239717
14:55	MP18455-S1	276956	237711



#### INTERNAL STANDARD SUMMARY

#### Login Number: D81334 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Date Analyzed: 04/15/16 File ID: PA041516DW.REP Methods: EPA 200.8 Run ID: MA7216

Analyst: RM Parameters: Pb

Sample Description Time Istd#1 Istd#2 14:58 MP18455-S2 273457 236414 15:01 D81334-12 276113 235837 15:04 D81334-13 270539 233115 15:07 D81334-14 265399 228594 15:10 D81334-15 271497 229627 15:13 MP18420-MB1 291933 266736 15:16 MP18420-B1 292365 257488 15:19 D81332-1 285547 246735 15:22 MA7216-CCV4 286445 255320 15:25 MA7216-CCB4 284968 254427 15:28 MP18420-S1 287581 242101 15:32 MP18420-S2 282270 241352 15:35 ZZZZZZ 283786 243611 15:38 ZZZZZZ 282865 242231 15:41 ZZZZZZ 284932 242502 15:44 ZZZZZZ 285616 245237 15:47 ZZZZZZ 280270 239525 15:50 ZZZZZZ 284212 244954 240262 15:53 222222 275732 15:56 ZZZZZZ 275932 242536 15:59 MA7216-CCV5 285476 251655 288647 16:02 MA7216-CCB5 258346 242354 16:05 ZZZZZZ 283060 16:08 MP18455-B1 252956 286573 16:11 MA7216-CCV6 288157 254846 16:14 MA7216-CCB6 279843 255953 R = Reference for ISTD limits. ! = Outside limits. LEGEND:

<u>Istd#</u> <u>Parameter</u> Istd#1 Yttrium Limits 60-125 % Istd#2 Bismuth 60-125 %

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81334

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041516DW.REP Date Analyzed: 04/15/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7216 Units: ug/l

Time: Sample ID: Metal	RL	IDL	13:47 CCB1 raw	final	14:12 CCB2 raw	final	14:49 CCB3 raw	final	15:25 CCB4 raw	final
Copper	2.0	.06	anr							
Lead	0.50	.0079	0.090	<0.50	0.074	<0.50	0.16	<0.50	0.075	<0.50

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

#### BLANK RESULTS SUMMARY

Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81334

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041516DW.REP Date Analyzed: 04/15/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7216 Units: ug/l

Time: Sample ID: Metal	RL	IDL	16:02 CCB5 raw	final	16:14 CCB6 raw	final
Copper	2.0	.06	anr			
Lead	0.50	.0079	0.057	<0.50	0.11	<0.50

(\*) Outside of QC limits
(anr) Analyte not requested

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81334

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041516DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/15/16 Methods: EPA 200.8 Run ID: MA7216

Units: ug/l

Time: Sample ID: Metal	ICV True	13:41 ICV1 Results	% Rec	CCV True	13:44 CCV1 Results	% Rec	CCV True	14:09 CCV2 Results	% Rec
Copper	anr								
Lead	100	98.2	98.2	50	51.6	103.2	50	51.3	102.6

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81334

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041516DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/15/16 Methods: EPA 200.8 Run ID: MA7216

Units: ug/l

Time: Sample ID: Metal	CCV True	14:45 CCV3 Results	% Rec	CCV True	15:22 CCV4 Results	% Rec	CCV True	15:59 CCV5 Results	% Rec
Copper	anr								
Lead	50	51.1	102.2	50	50.9	101.8	50	51.1	102.2

(\*) Outside of QC limits (anr) Analyte not requested

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81334

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041516DW.REP Date Analyzed: 04/15/16 Methods: EPA 200.8 Run ID: MA7216 QC Limits: 90 to 110 % Recovery Units: ug/l

Time:	16:11	
Sample ID: Metal		lts % Rec

Copper	anr		
Lead	50	50.7	101.4

(\*) Outside of QC limits (anr) Analyte not requested

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: D81334
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041516DW.REP Date Analyzed: 04/15/16 Methods: EPA 200.8 QC Limits: 50 to 150 % Recovery Run ID: MA7216 Units: ug/1

Time: Sample ID: Metal	CRI True	CRIA True	13:34 CRI1 Results	% Rec	13:38 CRI2 Results	% Rec
Copper	2.0	2.0	anr			
Lead	0.50	0.50	0.72	144.0	0.54	108.0

(\*) Outside of QC limits (anr) Analyte not requested

\_\_\_\_

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D81334

Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18454 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000037	<0.00050

Associated samples MP18454: D81334-1, D81334-2, D81334-3, D81334-4, D81334-5, D81334-6, D81334-7, D81334-8, D81334-9, D81334-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

\_\_\_\_\_

# 6.2.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81334
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

Units: mg/l

QC Batch ID: MP18454 Methods: EPA 200.8

Prep Date:

04/13/16

Associated samples MP18454: D81334-1, D81334-2, D81334-3, D81334-4, D81334-5, D81334-6, D81334-7, D81334-8, D81334-9, D81334-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

Matrix Type: DRINKING WATER

# 6.2.2 6

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81334 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18454 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Metal	D81334-1 Original		Spikelot ICPALL2		MSD RPD	QC Limit
Copper						
Lead	0.0010	0.19	0.20	94.5	17.1	20

Associated samples MP18454: D81334-1, D81334-2, D81334-3, D81334-4, D81334-5, D81334-6, D81334-7, D81334-7 8, D81334-9, D81334-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81334
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18454 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	BSP Result	Spikelot ICPALL2		QC Limits
Copper				
Lead	0.19	0.20	95.0	85-115

Associated samples MP18454: D81334-1, D81334-2, D81334-3, D81334-4, D81334-5, D81334-6, D81334-7, D81334-8, D81334-9, D81334-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

\_\_\_\_

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

#### Login Number: D81334

Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18455 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000030	<0.00050

Associated samples MP18455: D81334-11, D81334-12, D81334-13, D81334-14, D81334-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

\_\_\_\_

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81334 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18455 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Metal	D81334-11 Original MS	Spikelot ICPALL2 % Rec	QC Limits
Copper			
Lead	0.00033 0.17	0.20 84.8	70-130

Associated samples MP18455: D81334-11, D81334-12, D81334-13, D81334-14, D81334-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

# 0.3.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81334
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18455 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81334-11 Original MSD	Spikelot ICPALL2 % Rec		QC Limit
Copper				
Lead	0.00033 0.19	0.20 94.8	11.1	20

Associated samples MP18455: D81334-11, D81334-12, D81334-13, D81334-14, D81334-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81334 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18455 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Metal	BSP Result	Spikelot ICPALL2		QC Limits
Copper				
Lead	0.18	0.20	90.0	85-115

Associated samples MP18455: D81334-11, D81334-12, D81334-13, D81334-14, D81334-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested





# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT HIGH SCHOOL NORTH APRIL 2016

# APPENDIX B LABORATORY CERTIFICATION

# State of New Jersey Department of Environmental Protection Certifies That SGS Accutest Inc. – Wheat Ridge

Laboratory Certification ID # CO007

is hereby approved as a

Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2016



Mille M. Pott p get

Joseph F. Aiello Assistant Director

NJDEP is a NELAP Recognized Accreditation Body





# LEAD IN DRINKING WATER TESTING REPORT

WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT HIGH SCHOOL SOUTH 346 CLARKSVILLE ROAD WEST WINDSOR, NEW JERSEY 08550

#### PREPARED FOR:

West Windsor-Plainsboro Regional School District 505 Village Road West PO Box 505 West Windsor, New Jersey 08550

#### PREPARED BY:

PARS Environmental, Inc. 500 Horizon Drive, Suite 540 Robbinsville, New Jersey 08691

Tel: 609-890-7277 Fax: 609-890-9116

PARS Project No. 565-84

**April 2016** 



LABORATORY CERTIFICATION

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT HIGH SCHOOL SOUTH APRIL 2016

#### **PARS**

# **TABLE OF CONTENTS**

EXECUTIVE SUMMARY	.1
1.0 INTRODUCTION	. 2
2.0 LEAD IN DRINKING WATER SAMPLING	.3
3.0 LEAD IN DRINKING WATER FINDINGS	.4
4.0 CONCLUSIONS AND RECOMMENDATIONS	.5
TABLE 1 DRINKING WATER RESULTS TABLE	
APPENDIX A LABORATORY ANALYTICAL REPORTS	
APPENDIX B	



# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT HIGH SCHOOL SOUTH APRIL 2016

**PARS** 

## **EXECUTIVE SUMMARY**

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the High School South (HSS). PARS conducted the lead in drinking water testing on March 30, 2016 and April 20, 2016. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the United States Environmental Protection Agency (USEPA) 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (USEPA 3Ts). PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

#### **FINDINGS**

The USEPA National Primary Drinking Water Regulations requires that immediate action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 milligrams per liter (mg/l). Exceedance of the 0.015 mg/l action level was identified in one sample in the HSS. A total of 17 water samples were collected and analyzed. Laboratory analysis revealed that the hallway by room C1 water cooler was above the action level of 0.015 mg/l. The hallway by room C1 water cooler was initially sampled on March 31, 2016, and resampled on April 20, 2016. The lead levels decreased from 0.058 mg/l to 0.012 mg/l in the primary First Draw sample collected. The lead levels further decreased to 0.0027 mg/l in the 15 minute Flush sample collected. The 0.015 mg/l action level was not exceeded in the re-sampling of the hallway by room C1 water cooler.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic flushing of the school taps and testing per state and federal regulations.



# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT HIGH SCHOOL SOUTH APRIL 2016

**PARS** 

#### 1.0 INTRODUCTION

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the High School South (HSS). The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the *USEPA 3Ts*. PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

Sampling methodology is described in Section 2.0, the Lead in Drinking Water Findings are discussed in Section 3.0, and the Conclusions and Recommendations are presented in Section 4.0. A list of the sample locations and results are provided in **Table 1**. The Laboratory Analytical Report and Laboratory NELAC Certification are provided in **Appendix A** and **B**, respectively.

This report is intended for the sole use of WWP. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations, is at risk of said user.



**PARS** 

### 2.0 LEAD IN DRINKING WATER SAMPLING

PARS conducted lead in drinking water testing at the HSS on March 31, 2016 and April 20, 2016. The lead in drinking water sampling was conducted by Christa Casciolini, Melissa Konieczny, and Michael Nixon of PARS.

PARS performed lead in drinking water testing at a total of eight (8) drinking water fountains (bubbler and cooler units) and seven (7) faucets in the nurse's office, kitchen, teacher's lounge, teacher's prep room, home economics, and classroom locations in the HSS.

All samples were collected following the USEPA First Draw sampling protocol. The First Draw sample collection occurred in the morning prior to the facility opening and before any water was drawn in the building, including toilet flushing. The water was unused for six (6) to eight (8) hours prior to collection. Arrangements were made to sample the water outlets prior to the arrival of teachers and students.

The samples were placed in pre-preserved plastic bottles and submitted for laboratory analysis to SGS Accutest for two-week turnaround. SGS Accutest is a New Jersey Department of Environmental Protection (NJDEP) certified laboratory for lead in drinking water (NELAC #CO007 and #12129). All samples were analyzed using USEPA Method 200.8 for the determination of trace elements in waters and wastes by inductively coupled plasma – mass spectrometry (ICP-MS). Chain-of-custody protocols were followed.



**PARS** 

### 3.0 LEAD IN DRINKING WATER FINDINGS

Exceedance of the 0.015 mg/l action level was identified in one sample in the HSS. A total of 17 water samples were collected and analyzed. Laboratory analysis revealed that the hallway by room C1 water cooler was above the action level of 0.015 mg/l. The hallway by room C1 water cooler was initially sampled on March 31, 2016, and re-sampled on April 20, 2016. The lead levels decreased from 0.058 mg/l to 0.012 mg/l in the primary First Draw sample collected. The lead levels further decreased to 0.0027 mg/l in the 15 minute Flush sample collected. The 0.015 mg/l action level was not exceeded in the re-sampling of the hallway by room C1 water cooler.

Lead in drinking water tabulated results for the HSS are provided in **Table 1**. The laboratory analytical report is included in **Appendix A.** The laboratory certification is included in **Appendix B**.

**PARS** 

### 4.0 CONCLUSIONS AND RECOMMENDATIONS

A total of s eight (8) drinking water fountains (bubbler and cooler units) and seven (7) faucets in the nurse's office, kitchen, teacher's lounge, teacher's prep room, home economics, and classroom locations were tested in the HSS. The USEPA recommends that action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 mg/l. Exceedance of the 0.015 mg/l action level was identified in one sample in the HSS. A total of 17 water samples were collected and analyzed. Laboratory analysis revealed that the hallway by room C1 water cooler was above the action level of 0.015 mg/l. The hallway by room C1 water cooler was initially sampled on March 31, 2016, and re-sampled on April 20, 2016. The lead levels decreased from 0.058 mg/l to 0.012 mg/l in the primary First Draw sample collected. The lead levels further decreased to 0.0027 mg/l in the 15 minute Flush sample collected. The 0.015 mg/l action level was not exceeded in the re-sampling of the hallway by room C1 water cooler.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic flushing of the school taps and testing per state and federal regulations.

-000-

PARS appreciates the opportunity to assist West Windsor-Plainsboro Regional School District with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

PARS ENVIRONMENTAL, INC.

Christa M. Casciolini Project Geologist

Principal Industrial Hygienist

Nargaret Halasii

Margaret Halasnik



# 

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT HIGH SCHOOL SOUTH APRIL 2016

# TABLE 1 DRINKING WATER RESULTS TABLE

#### TABLE 1

#### LEAD IN DRINKING WATER TESTING REPORT

#### WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT HIGH SCHOOL SOUTH

APRIL 2016

All samples are primary (first draw) samples. Except for one (1) 15 minute flush sample collected on 4/20/16 during re-sampling of the hallway water cooler by room C1.

All faucets sampled are cold water, unless noted. EPA Action limit = 0.015 milligrams per liter (mg/l)

School: High School South Sampling Date: 3/30/2016

Exceeds EPA Action Limit ( > 0.015 mg/l)											
Hit = result > 0.00050 detection limit											
03/31/16 Initial Sampling											
Accutest Mountain States											4/15/2016 12:17
Job Number:	D81333										
Account:	PARS Environr	nental Services									
Project:	WWP Regional	, West Windsor-Plains	boro, NJ								
Project Number:	High School So	uth									
										Legend:	Hit
Client Sample ID:		SHS-01-NOR-NS-P	SHS-01-H900-WC-	SHS-01-H700A-WC- P	SHS-02-TP-TF-P	SHS-01-401-EC-P	SHS-01-KIT-KS-P	SHS-01-TL-TF-P	SHS-01-PLR-WC-P	SHS-01-MGYM- WC-P	SHS-01-92-CF-P
Lab Sample ID:		D81333-1	D81333-2	D81333-3	D81333-4	D81333-5	D81333-6	D81333-7	D81333-8	D81333-9	D81333-10
Date Sampled:		3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis											
Lead	mg/l	0.0018	0.0017	0.00099	0.0011	0.0018	0.0014	0.0016	< 0.00050	0.0013	0.009
Client Sample ID:		SHS-01-H96-WC-P	SHS-01-H101-WC-P	SHS-01-108-CF-P	SHS-02-H204-WC-P	SHS-01-HC1-WC-P					
Lab Sample ID:		D81333-11	D81333-12	D81333-13	D81333-14	D81333-15					
Date Sampled:		3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016					
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water					
Metals Analysis											
T J	I /I	< 0.00050	< 0.00050	0.00068	< 0.00050	0.059			1		r
Lead	mg/l	<0.00050	<0.00050	0.00068	<0.00050	0.058					<u> </u>

#### TABLE 1

#### LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT HIGH SCHOOL SOUTH

NS = Nurse's office sink

WC = Water cooler (chiller unit)

TF or TS = Teacher's faucet or Teacher's sink

APRIL 2016

All samples are primary (first draw) samples. Except for one (1) 30 second flush sample collected on 4/20/16 during re-sampling of the room A233 classroom faucet. All faucets sampled are cold water, unless noted.

EPA Action limit = 0.015 milligrams per liter (mg/l)

School: Sampling Date:	High School Son 4/20/2016	uth					
Exceeds EPA Action Limit ( > 0.015 mg/l)							
Hit = result > 0.00050 detection limit							
04/20/16 Resampling				_			
Accutest New Jersey		A	apr 26, 2016 13:47 pm				
Job Number:	JC18921						
Account:	PARS Environr	nental Services					
Project:	WWP Schools-I Princeton Junct	High School South, 346 tion, NJ	Clarksville Road,				
Project Number:	565-84						
		Legend:	Hit				
Client Sample ID:		SHS-01-HC1-WC-P	SHS-01-HC1-WC-F				
Date Sampled:		4/20/2016	4/20/2016				
Matrix:		Drinking Water	Drinking Water				
Metals Analysis							
	_						
Lead	mg/l	0.012	0.0027				
Client Sample ID Format:	School-Floor-Room-	Outlet-Sample Type		•			
Floor:	Room:			Outlet:		Sample Type:	
01 = First floor		### = Room number ###			BF = Bathroom faucet		P = Primary (first draw) sample
02 = Second floor		###-### = Sample between re	oom number ### and room	<i>‡</i>	CF = Classroom faucet		F = Flush sample
		H### = Hallway by room nur	mber ###		DW= Drinking water bubbler		
		BL = Boy's locker room			EC = Home economics room, cole	I	
		CAF = Cafeteria			KC = Kitchen faucet, cold		
		FR = Faculty room			LC = Lounge faucet, cold		

GL = Girl's locker room

MGYM = Main gym

MO = Main office NUR = Nurse's office SGYM = Small gym TGL = Team girl's locker room TL = Teacher's lounge TP = Teacher's prep room PLR = Pool Locker room

KIT = Kitchen





# APPENDIX A LABORATORY ANALYTICAL REPORTS



# ACCUTEST Mountain States

04/14/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



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Automated Report

## Technical Report for

#### **PARS** Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ

SHS

SGS Accutest Job Number: D81333

Sampling Date: 03/31/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 ccasciolini@ParsEnviro.com

ATTN: Crista Casciolini

Total number of pages in report: 58

TNI FABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman Laboratory Director

Seed walk

Client Service contact: Cristina Araujo 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY

CO (CO00049), EPA 515.4 Provisional

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.

Test results relate only to samples analyzed.

SGS

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# **Sample Summary**

Job No:

D81333

PARS Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ Project No: SHS

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
D81333-1	03/31/16	08:27 MK	04/01/16	DW	Drinking Water	SHS-01-NOR-NS-P
D81333-2	03/31/16	08:37 MK	04/01/16	DW	Drinking Water	SHS-01-H900-WC-P
D81333-3	03/31/16	08:40 MK	04/01/16	DW	Drinking Water	SHS-01-H700A-WC-P
D81333-4	03/31/16	08:45 MK	04/01/16	DW	Drinking Water	SHS-02-TP-TF-P
D81333-5	03/31/16	08:53 MK	04/01/16	DW	Drinking Water	SHS-01-401-EC-P
D81333-6	03/31/16	08:58 MK	04/01/16	DW	Drinking Water	SHS-01-KIT-KS-P
D81333-7	03/31/16	09:03 MK	04/01/16	DW	Drinking Water	SHS-01-TL-TF-P
D81333-8	03/31/16	09:08 MK	04/01/16	DW	Drinking Water	SHS-01-PLR-WC-P
D81333-9	03/31/16	09:12 MK	04/01/16	DW	Drinking Water	SHS-01-MGYM-WC-P
D81333-10	03/31/16	09:17 MK	04/01/16	DW	Drinking Water	SHS-01-92-CF-P
D81333-11	03/31/16	09:20 MK	04/01/16	DW	Drinking Water	SHS-01-H96-WC-P
D81333-12	03/31/16	09:26 MK	04/01/16	DW	Drinking Water	SHS-01-H101-WC-P
D81333-13	03/31/16	09:28 MK	04/01/16	DW	Drinking Water	SHS-01-108-CF-P



# Sample Summary (continued)

PARS Environmental Services

Job No: D81333

WWP Regional, West Windsor-Plainsboro, NJ Project No: SHS

Sample	mple Collected			Matr	ix	Client		
Number	Date	Time By	Received	Code	Type	Sample ID		
D81333-14	03/31/16	09:33 MK	04/01/16	DW	Drinking Water	SHS-02-H204-WC-P		
D81333-15	03/31/16	09:40 MK	04/01/16	DW	Drinking Water	SHS-01-HC1-WC-P		

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No D81333

Site: WWP Regional, West Windsor-Plainsboro, NJ Report Date 4/14/2016 7:52:06 PM

On 04/01/2016, 15 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.1 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D81333 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

#### Metals By Method EPA 200.8

Matrix: DW Batch ID: MP18452

- If required based on turbidity results, all samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81333-1MS, D81333-1MSD were used as the QC samples for the metals analysis.

Matrix: DW Batch ID: MP18453

- If required based on turbidity results, all samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81333-6MS, D81333-6MSD were used as the QC samples for the metals analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

**Summary of Hits Job Number:** D81333

**Account:** PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/31/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D81333-1	SHS-01-NOR-NS-	P				
Lead		0.0018	0.00050		mg/l	EPA 200.8
D81333-2	SHS-01-H900-WC	C- <b>P</b>				
Lead		0.0017	0.00050		mg/l	EPA 200.8
D81333-3	SHS-01-H700A-W	<b>/С-Р</b>				
Lead		0.00099	0.00050		mg/l	EPA 200.8
D81333-4	SHS-02-TP-TF-P					
Lead		0.0011	0.00050		mg/l	EPA 200.8
D81333-5	SHS-01-401-EC-P	•				
Lead		0.0018	0.00050		mg/l	EPA 200.8
D81333-6	SHS-01-KIT-KS-I	P				
Lead		0.0014	0.00050		mg/l	EPA 200.8
D81333-7	SHS-01-TL-TF-P					
Lead		0.0016	0.00050		mg/l	EPA 200.8
D81333-8	SHS-01-PLR-WC	-P				
No hits reported	in this sample.					
D81333-9	SHS-01-MGYM-V	WC-P				
Lead		0.0013	0.00050		mg/l	EPA 200.8
D81333-10	SHS-01-92-CF-P					
Lead		0.0090	0.00050		mg/l	EPA 200.8
D81333-11	SHS-01-H96-WC-	P				

No hits reported in this sample.

**Summary of Hits Job Number:** D81333

**Account:** PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/31/16

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method	

D81333-12 SHS-01-H101-WC-P

No hits reported in this sample.

D81333-13 SHS-01-108-CF-P

Lead 0.00068 0.00050 mg/l EPA 200.8

D81333-14 SHS-02-H204-WC-P

No hits reported in this sample.

D81333-15 SHS-01-HC1-WC-P

Lead 0.058 0.00050 mg/l EPA 200.8



# Section 4

Sample Results		
Report of Analysis		

# **Report of Analysis**

Client Sample ID: SHS-01-NOR-NS-P

Lab Sample ID:D81333-1Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0018	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18452

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: SHS-01-H900-WC-P

Lab Sample ID:D81333-2Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0017	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18452

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

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# **Report of Analysis**

Client Sample ID: SHS-01-H700A-WC-P

Lab Sample ID:D81333-3Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.00099	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18452

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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# **Report of Analysis**

Client Sample ID: SHS-02-TP-TF-P

Lab Sample ID:D81333-4Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0011	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18452

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: SHS-01-401-EC-P

Lab Sample ID:D81333-5Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0018	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18452

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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# **Report of Analysis**

Client Sample ID: SHS-01-KIT-KS-P

Lab Sample ID:D81333-6Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0014	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18453

RL = Reporting Limit

# **Report of Analysis**

Client Sample ID: SHS-01-TL-TF-P

Lab Sample ID:D81333-7Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0016	0.015	0.00050	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18453

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: SHS-01-PLR-WC-P

Lab Sample ID:D81333-8Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18453

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: SHS-01-MGYM-WC-P

Lab Sample ID:D81333-9Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0013	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18453

RL = Reporting Limit



# **Report of Analysis**

 Client Sample ID:
 SHS-01-92-CF-P

 Lab Sample ID:
 D81333-10

 Matrix:
 DW - Drinking Water

 Date Received:
 04/01/16

**Percent Solids:** n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0090	0.015	0.0005	0 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18453

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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ACCUTEST
D81333

# **Report of Analysis**

Client Sample ID: SHS-01-H96-WC-P

Lab Sample ID:D81333-11Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18453

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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# **Report of Analysis**

Page 1 of 1

Client Sample ID: SHS-01-H101-WC-P

Lab Sample ID: D81333-12 **Date Sampled:** 03/31/16 Matrix: **Date Received:** 04/01/16 DW - Drinking Water Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209 (2) Prep QC Batch: MP18453

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



**ACCUTEST** 

## **Report of Analysis**

Page 1 of 1

Client Sample ID: SHS-01-108-CF-P

Lab Sample ID: D81333-13 **Date Sampled:** 03/31/16 Matrix: **Date Received:** 04/01/16 DW - Drinking Water **Percent Solids:** n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Total Metals Analysis** 

Analyte Result MCL RLUnits DF Prep Analyzed By Method **Prep Method** EPA 200.8<sup>2</sup> Lead 0.00068  $0.00050\,mg/l$ 04/13/16 04/14/16 RM EPA 200.8 <sup>1</sup> 0.015 1

(1) Instrument QC Batch: MA7209 (2) Prep QC Batch: MP18453

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

**ACCUTEST** 

# **Report of Analysis**

Client Sample ID: SHS-02-H204-WC-P

Lab Sample ID:D81333-14Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18453

RL = Reporting Limit



# **Report of Analysis**

t of Analysis Page 1 of 1

Client Sample ID: SHS-01-HC1-WC-P

Lab Sample ID:D81333-15Date Sampled:03/31/16Matrix:DW - Drinking WaterDate Received:04/01/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.058	0.015	0.0005	50 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18453

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

23 of 58 ACCUTEST D81333



# Section 5

Custody Doc	uments and Other Forms
Includes the fol	lowing where applicable:

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### CHAIN OF CUSTODY

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Sampler(s) Name(s)	none # Project Manager			Millerinon								j										Trip Blank
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2 Day RUSH 1 Day RUSH					Commer	cial "C" a of Known	Qualit	v Proi	-	] Oth eportl												
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**D81333: Chain of Custody** Page 1 of 3

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china cascidini cascidine	Thing Cascidini Cascidini Dal Senvito Can Phone # Client Purchase Order #			City			Sta	ite		Zi	D	100							į		١		SOL - Other Solid WP - Wipe
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### **SGS Accutest Sample Receipt Summary**

Comments

Job Number: D81333	Client: PARS		Project: WWP REGIONAL	_ SHS
Date / Time Received: 4/1/2016	9:50:00 AM <b>Deliver</b>	y Method:	Airbill #'s: fx	
Cooler Temps (Initial/Adjusted):	#1: (2.1/2.1);			
Cooler Security Y or  1. Custody Seals Present: ✓ 2. Custody Seals Intact: ✓	N 3. COC Present: 4. Smpl Dates/Time Of	<u>Y or N</u> ✓ □	Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete:	<u>Y or N</u> ✓ □  ✓ □
Cooler Temperature	Y or N		3. Sample container label / COC agree:	
	Bar Therm; Ice (Bag)		Sample Integrity - Condition  1. Sample recvd within HT:  2. All containers accounted for:  3. Condition of sample:	Y or N  ✓ □  Intact
1. Trip Blank present / cooler:  2. Trip Blank listed on COC:	Y or N N/A		Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests	<u>Y or N N/A</u> ☑ □ □ ☑
			<ul><li>3. Sufficient volume recvd for analysis:</li><li>4. Compositing instructions clear:</li><li>5. Filtering instructions clear:</li></ul>	

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Section 6

## Metals Analysis

QC Data Summaries

### Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

# SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81333 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

Time	Sample Description	Dilution Factor	Comments
07:39	ZZZZZZ	1	
07:42	ZZZZZZ	1	
07:46	MA7209-STD1	1	STDBLK
07:49	MA7209-STD2	1	STD1
07:52	MA7209-STD3	1	STD2
07:55	MA7209-STD4	1	STD3
07:58	MA7209-CRI1	1	Possible analytical problem. See rerun.
08:03	MA7209-CRI2	1	
08:06	MA7209-ICV1	1	
08:09	MA7209-ICB1	1	
08:12	MA7209-CCV1	1	
08:15	MA7209-CCB1	1	
08:18	ZZZZZZ	1	
08:21	MP18448-MB1	1	
08:24	MP18448-B1	1	
08:27	D81292-1	1	(sample used for QC only; not part of login D81333)
08:30	MP18448-S1	1	
08:34	MA7209-CCV2	1	
08:37	MA7209-CCB2	1	
08:40	MP18448-S2	1	
08:43	ZZZZZZ	1	
08:46	ZZZZZZ	1	
08:49	ZZZZZZ	1	
08:52	ZZZZZZ	1	
08:55	ZZZZZZ	1	
08:58	ZZZZZZ	1	
09:01	ZZZZZZ	1	
		1	
		1	
		1	
		1	
		1	
09:17	MP18449-MB1	1	

#### SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81333 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Analyst:	RM	
Parameter	rs:	Pb

Time		Dilution PS Factor Recov	Comments
09:20	MP18449-B1	1	
09:23	D81293-1	1	(sample used for QC only; not part of login D81333)
09:26	MP18449-S1	1	
09:29	MP18449-S2	1	
09:32	ZZZZZZ	1	
09:35	ZZZZZZ	1	
09:38	ZZZZZZ	1	
09:41	ZZZZZZ	1	
09:44	ZZZZZZ	1	
09:47	MA7209-CCV4	1	
09:50	MA7209-CCB4	1	
09:54	ZZZZZZ	1	
09:57	ZZZZZZ	1	
10:00	ZZZZZZ	1	
10:03	ZZZZZZ	1	
10:06	ZZZZZZ	1	
10:09	MP18450-MB1	1	
10:12	MP18450-B1	1	
10:15	D81293-6	1	(sample used for QC only; not part of login D81333)
10:18	MP18450-S1	1	
10:21	MP18450-S2	1	
10:24	MA7209-CCV5	1	
10:28	MA7209-CCB5	1	
10:31	ZZZZZZ	1	
10:34	ZZZZZZ	1	
10:37	ZZZZZZ	1	
	ZZZZZZ	1	
	ZZZZZZ		
	ZZZZZZ	1	
		1	
	ZZZZZZ	1	
	ZZZZZZ	1	
10:58	MP18451-MB1	1	

## SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81333 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

Time		Dilution Factor	Comments
11:01	MA7209-CCV6	1	
11:04	MA7209-CCB6	1	
11:07	MP18451-B1	1	
11:10	D81294-1	1	(sample used for QC only; not part of login D81333)
11:14	MP18451-S1	1	
11:17	MP18451-S2	1	
11:20	ZZZZZZ	1	
11:23	ZZZZZZ	1	
11:26	ZZZZZZ	1	
11:29	ZZZZZZ	1	
11:32	ZZZZZZ	1	
11:35	ZZZZZZ	1	
11:38	MA7209-CCV7	1	
11:41	MA7209-CCB7	1	
11:44	ZZZZZZ	1	
11:47	ZZZZZZ	1	
11:50	ZZZZZZ	1	
11:53	MP18447-MB1	1	
11:56	MP18447-B1	1	
12:00	D81295-1	1	(sample used for QC only; not part of login D81333)
12:03	MP18447-S1	1	
12:06	MP18447-S2	1	
12:09	ZZZZZZ	1	
12:12	ZZZZZZ	1	
12:15	MA7209-CCV8	1	
12:18	MA7209-CCB8	1	
12:21	ZZZZZZ	1	
12:24	ZZZZZZ	1	
12:27	ZZZZZZ	1	
12:30	ZZZZZZ	1	
12:33	ZZZZZZ	1	
12:36	ZZZZZZ	1	
12:40	ZZZZZZ	1	

SGS 31 of 58
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## SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81333 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Analyst: RM Run ID: MA7209 Parameters: Pb

Para	meters: Pb		
Time		Dilution Factor	Comments
12:43	MP18452-MB1	1	
12:46	MP18452-B1	1	see rerun
12:49	D81333-1	1	
12:52	MA7209-CCV9	1	
12:55	MA7209-CCB9	1	
12:58	MP18452-S1	1	
13:01	MP18452-S2	1	
13:04	ZZZZZZ	1	
13:07	ZZZZZZ	1	
13:10	ZZZZZZ	1	
13:13	ZZZZZZ	1	
13:17	ZZZZZZ	1	
13:20	D81333-2	1	
13:23	D81333-3	1	
13:26	D81333-4	1	
13:29	MA7209-CCV10	1	
13:32	MA7209-CCB10	1	
13:35	D81333-5	1	
13:38	MA7209-CCV11	1	
13:41	MA7209-CCB11	1	
14:03	ZZZZZZ	1	
14:06	ZZZZZZ	1	
14:09	MP18453-MB1	1	
14:12	MP18453-B1	1	
14:15	D81333-6	1	
14:26	MP18453-S1	1	
14:29	MP18453-S2	1	
14:32	D81333-7	1	
14:35	D81333-8	1	
14:38	MP18452-B1	1	
14:41	MA7209-CCV12	1	
14:44	MA7209-CCB12	1	
14:48	D81333-9	1	



## SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: D81333 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209 File ID: PA041416DW.REP

Analyst: RM Parameters: Pb

Time	Sample Description	Dilution Factor		Comments
14:51	D81333-10	1		
14:54	D81333-11	1		
14:57	D81333-12	1		
15:00	D81333-13	1		
15:03	D81333-14	1		
	D81333-15	1		
	eportable sample MP18454-MB1	/prep for 1	job D813	33
15:12	MP18454-B1	1		
15:15	D81334-1	1		(sample used for QC only; not part of login D81333)
15:18	MA7209-CCV13	1		
	MA7209-CCB13	1	222	
	eportable CCB fo MP18454-S1	1 1 DD D81	333	
15:28	MP18454-S2	1		
15:31	ZZZZZZ	1		
15:34	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:40	ZZZZZZ	1		
15:43	ZZZZZZ	1		
15:46	ZZZZZZ	1		
15:49	ZZZZZZ	1		
15:52	ZZZZZZ	1		
15:55	MA7209-CCV14	1		
15:58	MA7209-CCB14	1		
16:01	ZZZZZZ	1		
16:04	MP18455-MB1	1		
16:07	MP18455-B1	1		
16:11	D81334-11	1		(sample used for QC only; not part of login D81333)
16:14	MP18455-S1	1		
16:17	MP18455-S2	1		
16:20	ZZZZZZ	1		
16:23	ZZZZZZ	1		
	ZZZZZZ	1		
	ZZZZZZ	1		

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#### SGS Accutest Instrument Runlog Inorganics Analyses

Login Number: D81333

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Date Analyzed: 04/14/16 Methods: EPA 200.8 File ID: PA041416DW.REP Run ID: MA7209

Analyst: RM Parameters: Pb

	Sample	Dilution	PS	
Time	Description	Factor	Recov	Comments

16:32 MA7209-CCV15 16:35 MA7209-CCB15

Refer to raw data for calibration curve and standards.

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### Login Number: D81333 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Analyst: RM

	meters: Pb		Ruii ID· MA7209
Time	Sample Description	Istd#1	Istd#2
07:39	ZZZZZZ	454198	502850
07:42	ZZZZZZ	443803	488302
07:46	MA7209-STD1	440446 R	488787 R
07:49	MA7209-STD2	432812	477471
07:52	MA7209-STD3	444552	471684
07:55	MA7209-STD4	418479	449504
07:58	MA7209-CRI1	No result	s reported for the elements associated with this internal standard.
08:03	MA7209-CRI2	427738	455261
08:06	MA7209-ICV1	441305	467474
08:09	MA7209-ICB1	423330	464361
08:12	MA7209-CCV1	437487	468907
08:15	MA7209-CCB1	425164	462506
08:18	ZZZZZZ	393164	392547
08:21	MP18448-MB1	401369	417516
08:24	MP18448-B1	396977	418679
08:27	D81292-1	411118	413248
08:30	MP18448-S1	415297	409788
08:34	MA7209-CCV2	440520	469021
08:37	MA7209-CCB2	411664	454809
08:40	MP18448-S2	408626	403631
08:43	ZZZZZZ	400515	399454
08:46	ZZZZZZ	401357	405168
08:49	ZZZZZZ	403967	405826
08:52	ZZZZZZ	405563	404771
08:55	ZZZZZZ	410066	408196
08:58	ZZZZZZ	404010	402560
09:01	ZZZZZZ	404652	397730
09:04	ZZZZZZ	402293	401894
09:04	ZZZZZZ	402293	401894
09:07	ZZZZZZ	406563	402074
09:10	MA7209-CCV3	439057	470400
09:13	MA7209-CCB3	421464	456896
09:17	MP18449-MB1	400391	403203

Login Number: D81333 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Analyst: RM Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Parameters: Pb

Time	Sample Description	Istd#1	Istd#2
09:20	MP18449-B1		
09:23	D81293-1	404435	404959
09:26	MP18449-S1	401844	403961
09:29	MP18449-S2	401753	404009
09:32	ZZZZZZ	402501	398455
09:35	ZZZZZZ	406017	393104
09:38	ZZZZZZ	401059	401168
09:41	ZZZZZZ		399160
09:44	ZZZZZZ	399848	400904
	MA7209-CCV4		455140
	MA7209-CCB4		449909
	ZZZZZZ		394592
	ZZZZZZ		390231
	ZZZZZZ		395177
	ZZZZZZ		399118
	ZZZZZZ		396550
	MP18450-MB1		418350
	MP18450-B1		405182
	D81293-6		402601
	MP18450-S1		398840
	MP18450-S2		403050
	MA7209-CCV5		449692
	MA7209-CCV5		449467
	ZZZZZZ		390589
	ZZZZZZ		
	ZZZZZZ		392980
	ZZZZZZ		
	ZZZZZZ		
	ZZZZZZ		
	ZZZZZZ		
	ZZZZZZ		
	ZZZZZZ		
10:58	MP18451-MB1	411878	406337

Login Number: D81333 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Analyst: RM Parameters: Pb

	illeters. PD		
Time	Sample Description	Istd#1	Istd#2
11:01	MA7209-CCV6	433782	450090
11:04	MA7209-CCB6	420244	441583
11:07	MP18451-B1	410443	398362
11:10	D81294-1	419007	399880
11:14	MP18451-S1	414012	400717
11:17	MP18451-S2	413388	401939
11:20	ZZZZZZ	403070	398111
11:23	ZZZZZZ	407605	386406
11:26	ZZZZZZ	415288	394425
11:29	ZZZZZZ	405192	392371
11:32	ZZZZZZ	410577	397729
11:35	ZZZZZZ	405172	387233
11:38	MA7209-CCV7	440801	447223
11:41	MA7209-CCB7	421386	436272
11:44	ZZZZZZ	399478	386705
11:47	ZZZZZZ	400781	387378
11:50	ZZZZZZ	413019	389909
11:53	MP18447-MB1	417677	411702
11:56	MP18447-B1	407027	396094
12:00	D81295-1	415831	393077
12:03	MP18447-S1	419655	402165
12:06	MP18447-S2	424122	403599
12:09	ZZZZZZ	402781	384413
12:12	ZZZZZZ	403429	387983
12:15	MA7209-CCV8	435341	436507
12:18	MA7209-CCB8	423104	429492
12:21	ZZZZZZ	412393	385949
12:24	ZZZZZZ	407628	383985
12:27	ZZZZZZ	409041	382610
12:30	ZZZZZZ	407799	385156
12:33	ZZZZZZ	406922	386009
12:36	ZZZZZZ	412740	384586
12:40	ZZZZZZ	401709	382824

Login Number: D81333
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

	mmeters. PD		
Time	Sample Description	Istd#1	Istd#2
12:43	MP18452-MB1	420241	401814
12:46	MP18452-B1	419395	397055
12:49	D81333-1	409448	385797
12:52	MA7209-CCV9	430672	429843
12:55	MA7209-CCB9	417749	417025
12:58	MP18452-S1	418230	385399
13:01	MP18452-S2	407146	383643
L3:04	ZZZZZZ	408302	371466
3:07	ZZZZZZ	403689	379674
3:10	ZZZZZZ	411539	386596
13:13	ZZZZZZ	403197	370721
13:17	ZZZZZZ	416680	381802
L3:20	D81333-2	407648	378587
3:23	D81333-3	406024	374405
3:26	D81333-4	408407	372818
3:29	MA7209-CCV10	435942	413205
3:32	MA7209-CCB10	416214	413753
3:35	D81333-5	404822	362076
3:38	MA7209-CCV11	426568	411895
3:41	MA7209-CCB11	409523	407424
4:03	ZZZZZZ	399108	396795
4:06	ZZZZZZ	402218	391683
4:09	MP18453-MB1	378082	358105
4:12	MP18453-B1	386228	358559
4:15	D81333-6	385509	348769
4:26	MP18453-S1	442219	399666
4:29	MP18453-S2	443365	396207
4:32	D81333-7	449246	398780
4:35	D81333-8	444286	403215
4:38	MP18452-B1	454603	416082
4:41	MA7209-CCV12	468425	438157
L4:44	MA7209-CCB12	451676	437854
4:48	D81333-9	442401	390657



Login Number: D81333 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Analyst: RM Parameters: Pb

	eccib ID		
Time	Sample Description	Istd#1	Istd#2
	D81333-10		388030
14:54	D81333-11	436439	389973
14:57	D81333-12	433379	398082
	D81333-13		390290
	D81333-14		
	D81333-15		
	MP18454-MB1		408730
	MP18454-B1		
	D81334-1		404752
	MA7209-CCV13		435374
15:21	MA7209-CCB13	459158	433288
15:24	MP18454-S1	442295	391423
15:28	MP18454-S2	440358	395621
15:31	ZZZZZZ	436245	388935
15:34	ZZZZZZ	461829	401670
15:37	ZZZZZZ	444145	394619
15:40	ZZZZZZ	449474	393011
15:43	ZZZZZZ	451943	398244
15:46	ZZZZZZ	437027	390707
15:49	ZZZZZZ	448391	389810
15:52	ZZZZZZ	437339	388114
15:55	MA7209-CCV14	472414	432918
15:58	MA7209-CCB14	466454	427440
	ZZZZZZ		
	MP18455-MB1		
	MP18455-B1		
	D81334-11	442706	394660
	MP18455-S1		389823
	MP18455-S2	457686	401654
16:20	ZZZZZZ	438817	386681
16:23	ZZZZZZ	436385	387160
16:26	ZZZZZZ	444957	392716
16:29	ZZZZZZ	444459	388988



## 6.7.7

#### INTERNAL STANDARD SUMMARY

Login Number: D81333

Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Analyst: RM Run ID: MA7209

Parameters: Pb

Time	Sample Description	Istd#1	Istd#2
16:32	MA7209-CCV15	478033	431753
6:35	MA7209-CCB15	461755	422103

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	
Istd#1	Yttrium	60-125	왕
Istd#2	Bismuth	60-125	용

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#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81333

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	RL	IDL	08:09 ICB1 raw	final	08:15 CCB1 raw	final	08:37 CCB2 raw	final	09:13 CCB3 raw	final
Copper	2.0	.06	anr							
Lead	0.50	.0079	0.15	<0.50	0.083	<0.50	0.12	<0.50	0.067	<0.50

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81333

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	RL	IDL	09:50 CCB4 raw	final	10:28 CCB5 raw	final	11:04 CCB6 raw	final	11:41 CCB7 raw	final
Copper	2.0	.06	anr							
Lead	0.50	.0079	0.071	<0.50	0.11	<0.50	0.088	<0.50	0.077	<0.50

#### Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81333

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/1

Time: Sample ID: Metal	RL	IDL	12:18 CCB8 raw	final	12:55 CCB9 raw	final	13:32 CCB10 raw	final	13:41 CCB11 raw	final
Copper	2.0	.06	anr							
Lead	0.50	.0079	0.095	<0.50	0.095	<0.50	0.080	<0.50	0.073	<0.50

(\*) Outside of QC limits
(anr) Analyte not requested

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#### BLANK RESULTS SUMMARY

Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81333

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	RL	IDL	14:44 CCB12 raw	final	15:21 CCB13 raw	final
Copper	2.0	.06				
Lead	0.50	.0079	0.17	<0.50	0.10	<0.50

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81333

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery

Run ID: MA7209

Units: ug/l

Time: Sample ID: Metal	ICV True	08:06 ICV1 Results	% Rec	CCV True	08:12 CCV1 Results	% Rec	CCV True	08:34 CCV2 Results	% Rec
Copper	anr								
Lead	100	102	102.0	50	51.4	102.8	50	52.3	104.6

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81333

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP QC Limits: 90 to 110 % Recovery

Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Units: ug/l

Time: Sample ID: Metal	CCV True	09:10 CCV3 Results	% Rec	CCV True	09:47 CCV4 Results	% Rec	CCV True	10:24 CCV5 Results	% Rec
Copper	anr								
Lead	50	51.6	103.2	50	52.2	104.4	50	51.5	103.0

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81333

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Units: ug/l

Time: Sample ID: Metal	CCV True	11:01 CCV6 Results	% Rec	CCV True	11:38 CCV7 Results	% Rec	CCV True	12:15 CCV8 Results	% Rec
Copper	anr								
Lead	50	52.1	104.2	50	50.4	100.8	50	51.1	102.2

### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81333

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	CCV True	12:52 CCV9 Results	% Rec	CCV True	13:29 CCV10 Results	% Rec	CCV True	13:38 CCV11 Results	% Rec
Copper	anr								
Lead	50	49.6	99.2	50	50.1	100.2	50	49.9	99.8

### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81333

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery Run ID: MA7209 Units: ug/1

Time: Sample ID: Metal	CCV True	14:41 CCV12 Results	% Rec	CCV True	15:18 CCV13 Results	% Rec
Copper						
Lead	50	46.9	93.8	50	46.3	92.6

(\*) Outside of QC limits
(anr) Analyte not requested

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#### LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: D81333
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 50 to 150 % Recovery Run ID: MA7209 Units: ug/1

Time: Sample ID: Metal		CRIA True	08:03 CRI2 Results	% Rec
Copper	2.0	2.0	anr	
Lead	0.50	0.50	0.51	102.0

(\*) Outside of QC limits
(anr) Analyte not requested

\_\_\_\_

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D81333

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18452 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Metal	RL	IDL	MDL	MB raw	final
er	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000018	<0.00050

Associated samples MP18452: D81333-1, D81333-2, D81333-3, D81333-4, D81333-5

 ${\tt Results} \, < \, {\tt IDL} \, \, {\tt are} \, \, {\tt shown} \, \, {\tt as} \, \, {\tt zero} \, \, {\tt for} \, \, {\tt calculation} \, \, {\tt purposes} \, \,$ (\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

## 6.2.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81333
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18452 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81333-1 Original MS		Spikelot ICPALL2 % Rec		QC Limits
Copper					
Lead	0.0018	0.17	0.20	84.1	70-130

Associated samples MP18452: D81333-1, D81333-2, D81333-3, D81333-4, D81333-5

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

## 6.2.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81333
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18452 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81333-1 Original MSD	Spikelot ICPALL2 % Rec	MSD QC RPD Lim:
Copper			
Lead	0.0018 0.17	0.20 84.1	0.0 20

Associated samples MP18452: D81333-1, D81333-2, D81333-3, D81333-4, D81333-5

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81333 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Units: mg/l

QC Batch ID: MP18452 Methods: EPA 200.8

04/13/16 Prep Date:

0.17

Matrix Type: DRINKING WATER

Lead

Spikelot BSP QC ICPALL2 % Rec Limits Metal Result Copper

Associated samples MP18452: D81333-1, D81333-2, D81333-3, D81333-4, D81333-5

85.0 85-115

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

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**ACCUTEST** 

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D81333

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18453 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000002	20<0.00050

Associated samples MP18453: D81333-6, D81333-7, D81333-8, D81333-9, D81333-10, D81333-11, D81333-12, D81333-13, D81333-14, D81333-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

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#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81333 Account: PARS - PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18453 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Metal		D81333-6 Original MS		Spikelot ICPALL2 % Rec	
pper					
Lead	0.0014	0.16	0.20	79.3	70-130

 $\texttt{Associated samples MP18453: D81333-6, D81333-7, D81333-8, D81333-9, D81333-10, D81333-11, D81333-12, D81333-10, D81333-10, D81333-11, D81333-12, D81333-11, D81333-12, D81333-11, D81333-11, D81333-12, D81333-11, D81333-11, D81333-12, D81333-11, D81333-12, D81333-11, D81333-11, D81333-12, D81333-11, D81333-12, D81333-11, D81333-11, D81333-12, D81333-11, D81331-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D81333-11, D81333-11, D81333-11, D81333-11, D81333-11, D81333-11, D81333-11, D81333-11, D81333-11, D81333-11, D81333-11, D81333-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D8133-11, D8131-11, D8131-11, D8131-11, D8131-11, D8131-11, D8131-11, D8131-11,$ D81333-13, D81333-14, D81333-15

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

## 0.3.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81333
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18453 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81333-6 Original		Spikelot ICPALL2		MSD RPD	QC Limit
Copper						
Lead	0.0014	0.18	0.20	89.3	11.8	20

Associated samples MP18453: D81333-6, D81333-7, D81333-8, D81333-9, D81333-10, D81333-11, D81333-12, D81333-13, D81333-14, D81333-15

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

## 0.3.3

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81333
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18453 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Associated samples MP18453: D81333-6, D81333-7, D81333-8, D81333-9, D81333-10, D81333-11, D81333-12, D81333-13, D81333-14, D81333-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

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D81333



### ACCUTEST New Jersey

05/02/16

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### Technical Report for

#### **PARS** Environmental Services

WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

565-84

SGS Accutest Job Number: JC18921

Sampling Date: 04/20/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 RTorres@ParsEnviro.com

ATTN: Rafael Torres

Total number of pages in report: 41

TNI FORATORA

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Maney +. Cole
Nancy Cole
Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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### **Sample Summary**

PARS Environmental Services

Job No:

JC18921

WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ Project No: 565-84

Sample Collected				Matr	rix	Client		
Number	Date	Time By	Received	Code	e Type	Sample ID		
JC18921-1	04/20/16	06:00 MN	04/22/16	DW	Drinking Water	SHS-01-HC1-WC-P		
JC18921-2	04/20/16	06:15 MN	04/22/16	DW	Drinking Water	SHS-01-HC1-WC-F		

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No JC18921

Site: WWP Schools-High School South, 346 Clarksville Road, Princeton Report Date 5/2/2016 4:03:22 PM

On 04/22/2016, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 5.6 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC18921 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

#### Metals By Method EPA 200.8

Matrix: DW Batch ID: MP93316

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC18920-1MS, JC18920-1MSD were used as the QC samples for metals.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

SGS AC

### Page 1 of 1

**Summary of Hits Job Number:** JC18921

Account: PARS Environmental Services

**Project:** WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

**Collected:** 04/20/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC18921-1	SHS-01-HC1-WC	-P				
Lead		0.012	0.00050		mg/l	EPA 200.8
JC18921-2	SHS-01-HC1-WC	- <b>F</b>				
Lead		0.0027	0.00050		mg/l	EPA 200.8





## Section 4



#### Page 1 of 1

### **Report of Analysis**

Client Sample ID: SHS-01-HC1-WC-P

Lab Sample ID:JC18921-1Date Sampled:04/20/16Matrix:DW - Drinking WaterDate Received:04/22/16Percent Solids:n/a

Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.012	0.015	0.00050	0 mg/1	1	04/25/16	04/25/16 јо	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39257(2) Prep QC Batch: MP93316

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



Page 1 of 1

# **Report of Analysis**

Client Sample ID: SHS-01-HC1-WC-F

Lab Sample ID:JC18921-2Date Sampled:04/20/16Matrix:DW - Drinking WaterDate Received:04/22/16Percent Solids:n/a

Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

# **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0027	0.015	0.0005	0 mg/1	1	04/25/16	04/25/16 до	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39257(2) Prep QC Batch: MP93316

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



# **Section 5**

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

	ACCUTES	<b></b> ₽₩		СНАІ	N (	)F (	CUS	TC	DD	Y												PA	\GE		_ <b>O</b> I	F
	LABORATORIE	s		2235	Route 13	0, Dayto	n, NJ 088	310						FE	D-EX	Tracking	*				Bottle	Order Co	ntrol #			
				TEL. 732-3		FAX: 7		499/3	480					Ac	cutest	Quote #					Accute	st Job #		J(	18	971
	Client / Reporting Information			Project												Requ	ieste	d Ana	ivsis	see T	EST C	ODE	sheet)			Matrix Codes
Compa	any Name	Project Name:																		1	I		T	"		
	PARS Environmental Inc.	WWP Sci	nools - High Scl	nool South																						DW - Drinking Wate GW - Ground Wate
Street	Address	Street				Company of the second		***********	*************		*******							ŀ			i					WW - Water SW - Surface Wate
City	500 Horizon Drive, Suite 540 State Zi	346 Clar ip City	ksville Road	State	Billing	Informat ny Name	on ( if dif	feren	t from	Repo	ort to	)		_												SO - Soil
,	Robbinsville, NJ 08691	. 1	on Junction	NJ	Compan	ly Ivanie									- 1							1				SL- Sludge SED-Sediment
Project		-mail Project#	on Junction	NJ	Street A	ddress								-					1				1			OI - Oil LIQ - Other Liquid
	fael L. Torres, III		65-84																							AIR - Air
Phone		ax# Client Purchase	Order#		City				State			Z	ip							1			1			SOL - Other Solid WP - Wipe
	9-890-7277 609-89 er(s) Name(s) P	0-9116 Project Manage												_					1							FB-Field Blank EB-Equipment Blank
Sample	Mike Nixon 609-41	1	Torres, III		Attention	1:									- 1	- 1					1					RB- Rinse Blank
	MIRE WIXOII 605-41	4-2100 Karaeri	rorres, m	Collection	1	T	T	1	Numb	er of	prese	rved B	ottles	$\dashv$ $\epsilon$	0				1							TB-Trip Blank
Accutest						1		П	T	×	<u></u>	ate.	SRE .	П;	20						1	1				
Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottle	s ⊋	NaOH HNO3	H2504	NONE	DI Wat	ENCORE	2	۲											LAB USE ONLY
T	SHS-01-HC1-WC-P		4/20/16	0600	MN	DW	1	T	1	T	П	$\top$	П	1	1							<u> </u>				A23
2	SHS-01-HC1-WC-F		4/20/16	0615	MN	DW	1	П	1	T	П	T	$\top$	Η.	1								<u> </u>		_	1,00
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								Н	4	L	Ш	_	Н	_												
Contract Contract	T														$\perp$										- 1	
	Turnaround Time ( Business days)	Approved By (Acc	steet Offic ( Date:						iverable	e Inf									******	Com	nents /	Specia	al Instru	ctions		
1 1	Std. 10 Business Days	Approved by (ACC	Diest Pm): / Date:		_		ial "A" (L ial "B" ( L		,	1				tegory tegory												
	5 Day RUSH						Level 3+		-,				Form		_	- 1										
	3 Day EMERGENCY					NJ Reduc				i			Form	at		_ L										
	2 Day EMERGENCY     1 Day EMERGENCY					Commerc				!		Othe	r													
	other						Commerc					Summ	narv			H					-					
Eme	rgency & Rush T/A data available VIA Lablink						NJ Reduc	ed =	Results	+0	C Su	mman	v + Par	rtial Rav	w data											
Relino	quished by Sampler: ///// Dat	e Time:	nple Custody mu				time sa		es cha		pos	5055	ion, Ir	ncludi	ng co	ourier o		ry. Date Tk	17	10				,		
1	le Will Ille	1/20/16	Mac	64.2	246	5		2		ブ	7.	_ار	Ø						ne:1 - 16		Receive 2	αВу: С	> <			,
	quished by Sampler: Det	e Time:	Received By:						quished	By:								Date Tir			Receive	d By:				
3 Reling	guished by: Det	e Time:	Received By:					4 Custo	ody Sea					Intac							4					
5			E					Custo	ouy Sea					ı intac	π	Pr	eserve	dwhon	applica	ble			On Ice		Cooler 1	Temp.

☐ Intact
☐ Not intact

JC18921: Chain of Custody Page 1 of 2

Cooler Temp. 5, 2

# 5.1

# 45

Job Number: JC18	921 Client:		Project:							
Date / Time Received: 4/22/2	2016 5:10:00 PM	Delivery Method:	Airbill #'s:							
Cooler Temps (Raw Measured Cooler Temps (Corrected	, , ,									
Cooler Security  1. Custody Seals Present: 2. Custody Seals Intact:  Cooler Temperature	or N		Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:	Y or N  ✓ □  ✓ □  ✓ □						
1. Temp criteria achieved: 2. Cooler temp verification: 3. Cooler media: 4. No. Coolers:	IR Gun Ice (Bag)		Sample Integrity - Condition  1. Sample recvd within HT:  2. All containers accounted for:  3. Condition of sample:	Y or N  O						
1. Trip Blank present / cooler: 2. Trip Blank listed on COC: 3. Samples preserved properly:	<u>Y or N N/A</u> □	ı	Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests	Y or N N/A						
VOCs headspace free:			Sufficient volume recvd for analysis:     Compositing instructions clear:     Filtering instructions clear:							
Comments										

**SGS Accutest Sample Receipt Summary** 

JC18921: Chain of Custody

Page 2 of 2

# **Internal Sample Tracking Chronicle**

PARS Environmental Services

Job No:

JC18921

WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ Project No: 565-84

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
JC18921-1 SHS-01-HC	Collected: 20-APR-16	06:00 By: MN	Receiv	ved: 22-APR-	·16 By:	: AS
JC18921-1	EPA 200.8	25-APR-16 14:17	JO	25-APR-16	JO	PBMS
JC18921-2 SHS-01-HC	Collected: 20-APR-16	06:15 By: MN	Receiv	ed: 22-APR-	16 By:	: AS
JC18921-2	EPA 200.8	25-APR-16 14:22	JO	25-APR-16	JO	PBMS

Page 1 of 1

# **SGS Accutest Internal Chain of Custody**

Job Number: JC18921

**Account:** PARS PARS Environmental Services

Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

**Received:** 04/22/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC18921-1.1	Secured Storage	Alfredo Crespo	04/25/16 10:51	Retrieve from Storage
JC18921-1.1	Alfredo Crespo	Secured Staging Area	04/25/16 10:51	Return to Storage
JC18921-1.1	Secured Staging Area	Jaclyn O'Connor		Retrieve from Storage
JC18921-1.1	Jaclyn O'Connor	Secured Storage	04/25/16 15:00	Return to Storage
JC18921-1.1	Secured Storage	Alfredo Crespo		Retrieve from Storage
JC18921-1.1	Alfredo Crespo	Secured Staging Area		Return to Storage
JC18921-1.1	Secured Staging Area	Lucas Schneider	04/25/16 15:23	Retrieve from Storage
JC18921-1.1	Lucas Schneider	Secured Storage		Return to Storage
JC18921-2.1	Secured Storage	Alfredo Crespo	04/25/16 10:51	Retrieve from Storage
JC18921-2.1	Alfredo Crespo	Secured Staging Area	04/25/16 10:51	Return to Storage
JC18921-2.1	Secured Staging Area	Jaclyn O'Connor	04/25/16 10:54	Retrieve from Storage
JC18921-2.1	Jaclyn O'Connor	Secured Storage		Return to Storage
JC18921-2.1	Secured Storage	Alfredo Crespo	04/25/16 15:04	Retrieve from Storage
JC18921-2.1	Alfredo Crespo	Secured Staging Area		Return to Storage
JC18921-2.1	Secured Staging Area	Lucas Schneider		Retrieve from Storage
JC18921-2.1	Lucas Schneider	Secured Storage		Return to Storage



Section 6

# Metals Analysis

# QC Data Summaries

# Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- · High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV Analyst: JO
Parameters: Pb

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Para	meters: Pb		
Time	Sample Description	Dilution Factor	Comments
09:11	MA39257-STD1	1	STDA
09:15	MA39257-STD2	1	STDA
09:20	MA39257-STD3	1	STDA
09:24	MA39257-STD4	1	STDA
09:29	MA39257-STD5	1	STDA
09:33	MA39257-STD6	1	STDA
09:38	MA39257-STD7	1	STDB
09:42	MA39257-STD8	1	STDC
09:46	MA39257-STD9	1	STDD
09:51	MA39257-STD10	1	STDE
09:55	MA39257-STD11	1	STDF
10:00	MA39257-STD12	1	STDG
10:04	MA39257-STD13	1	STDH
10:08	MA39257-STD14	1	STDI
10:13	MA39257-STD15	1	STDJ
10:23	MA39257-STD16	1	STDA
10:28	MA39257-ICVA1	1	
10:32	MA39257-ICV1	1	60ppb A1.
10:36	MA39257-ICB1	1	
10:41	MA39257-CRI1	1	
10:45	MA39257-ICSA1	1	
10:50	MA39257-ICSAB1	1	
10:55	ZZZZZZ	1	
10:59	ZZZZZZ	1	
11:04	ZZZZZZ	1	
11:13	ZZZZZZ	1	
11:18	ZZZZZZ	1	
11:28	MA39257-CCVA1	1	
11:34	MA39257-CCB1	1	
11:38	ZZZZZZ	1	
11:42	ZZZZZZ	1	
11:47	ZZZZZZ	1	
11:51	ZZZZZZ	1	



Run ID: MA39257

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV Date Analyzed: 04/25/16 Methods: EPA 200.8, SW846 6020A

Analyst: JO Parameters: Pb

Time	Sample Description	Dilution PS Factor Recov	Comments
11:56	ZZZZZZ	1	
12:00	ZZZZZZ	1	
12:05	ZZZZZZ	1	
12:09	ZZZZZZ	1	
12:13	MA39257-CCVA2	1	
12:18	MA39257-CCB2	1	
12:22	ZZZZZZ	2	
12:27	ZZZZZZ	2	
12:31	ZZZZZZ	1	
12:36	MA39257-CRI2	1	
12:40	ZZZZZZ	5	
12:44	ZZZZZZ	5	
12:49	ZZZZZZ	1	
12:53	MA39257-CRI3	1	
12:58	MA39257-CCVA3	1	
13:02	MA39257-CCB3	1	
13:07	ZZZZZZ	1	
13:11	ZZZZZZ	10	
13:15	ZZZZZZ	10	
13:20	ZZZZZZ	1	
13:24	ZZZZZZ	1	
13:29	ZZZZZZ	1	
13:33	ZZZZZZ	1	
13:38	MA39257-CRI4	1	
13:42	MA39257-CCVA4	1	
13:46	MA39257-CCB4	1	
13:51	MP93316-MB1	1	
13:55	MP93316-B1	1	
14:00	MP93316-S1	1	
14:04	MP93316-S2	1	
14:09	JC18920-1	1	(sample used for QC only; not part of login JC18921)
14:13	ZZZZZZ	1	
14:17	JC18921-1	1	



# Login Number: JC18921

Account: PARS - PARS Environmental Services

Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV

16:04 ZZZZZZ

16:08 ZZZZZZ

16:12 MA39257-CCVA7

16:17 MA39257-CCB7 16:21 MP93282-MB1

16:26 MP93282-B1

16:30 MP93282-B1

16:35 MP93282-S1

16:39 MP93282-S1

16:44 MP93282-S2

1

1

1

1

1

2

Date Analyzed: 04/25/16 Methods: EPA 200.8, SW846 6020A

		yst: JO meters: Pb			Run ID: MA39257
	Time	Sample Description	Dilution Factor		Comments
>	Last r	JC18921-2 eportable sample ZZZZZZ	1 /prep for 1	job JC18	921
	14:31	MA39257-CCVA5	1		
>		MA39257-CCB5 eportable CCB for	1 r job JC18	3921	
		MP93268-MB1	1		
	14:44	MP93268-B1	1		
	14:48	MP93268-B1	2		Ag
	14:53	MP93268-S1	1		
	14:57	MP93268-S1	2		Ag
	15:02	MP93268-S2	1		
	15:06	MP93268-S2	2		Ag
	15:10	ZZZZZZ	1		
	15:15	ZZZZZZ	1		
	15:19	MA39257-CCVA6	1		
	15:24	MA39257-CCB6	1		
	15:28	JC18553-2	1		(sample used for QC only; not part of login JC18921)
	15:33	ZZZZZZ	1		
	15:37	ZZZZZZ	1		
	15:42	ZZZZZZ	1		
	15:46	ZZZZZZ	1		
	15:50	ZZZZZZ	1		
	15:55	ZZZZZZ	1		
	15:59	ZZZZZZ	1		

Ag

Ag

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Analyst: JO Parameters: Pb

Time	Sample Description	Dilutior Factor	Comments
16:48	MP93282-S2	2	AG
16:52	ZZZZZZ	1	
16:57	ZZZZZZ	1	
17:01	MA39257-CCVA8	1	
17:06	MA39257-CCB8	1	
17:10	JC18565-1	1	(sample used for QC only; not part of login JC18921)
17:15	ZZZZZZ	1	
17:19	ZZZZZZ	1	
17:23	ZZZZZZ	1	
17:28	ZZZZZZ	1	
17:32	ZZZZZZ	1	
17:37	ZZZZZZ	1	
17:41	ZZZZZZ	1	
17:46	MA39257-CCVA9	1	
17:50	MA39257-CCB9	1	

Refer to raw data for calibration curve and standards.

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV Analyst: JO Parameters: Pb

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
09:11	MA39257-STD1	100	100	100	100	100	100	100	100
09:15	MA39257-STD2	100	100	100	100	100	100	100	100
09:20	MA39257-STD3	100	100	100	100	100	100	100	100
09:24	MA39257-STD4	100	100	100	100	100	100	100	100
09:29	MA39257-STD5	100	100	100	100	100	100	100	100
09:33	MA39257-STD6	100	100	100	100	100	100	100	100
09:38	MA39257-STD7	100.588	100.562	98.932	98.74	100.682	99.852	100.258	100.691
09:42	MA39257-STD8	102.257	101.111	100.026	99.342	101.212	100.181	98.994	100.468
09:46	MA39257-STD9	101.484	100.13	99.555	98.973	101.122	99.864	100.649	100.625
09:51	MA39257-STD10	101.84	99.549	98.606	99.708	100.358	99.329	100.137	100.527
09:55	MA39257-STD11	102.133	99.745	98.388	98.103	100.038	98.669	99.766	100.405
10:00	MA39257-STD12	102.391	101.245	99.856	99.485	101.213	99.245	100.652	100.522
10:04	MA39257-STD13	101.204	100.121	97.728	98.275	99.11	97.293	98.933	98.524
10:08	MA39257-STD14	101.365	99.896	97.769	97.498	99.54	97.592	97.718	97.883
10:13	MA39257-STD15	99.988	99.93	97.856	96.928	98.774	96.63	97.416	95.987
10:23	MA39257-STD16	100	100	100	100	100	100	100	100
10:28	MA39257-ICVA1	98.742	100.021	100.715	101.086	100.76	100.7	101.606	97.915
10:32	MA39257-ICV1	97.88	98.588	97.524	99.223	98.357	98.475	99.567	98.712
10:36	MA39257-ICB1	99.107	98.583	97.866	100.455	98.946	98.585	100.699	99.08
10:41	MA39257-CRI1	97.596	98.302	98.28	99.985	99.157	98.563	100.256	99.112
10:45	MA39257-ICSA1	94.127	98.343	101.986	105.814	94.97	97.511	99.957	87.732
10:50	MA39257-ICSAB1	98.716	107.72	111.407	112.099	102.505	103.821	103.749	92.78
10:55	ZZZZZZ	108.625	113.709	111.975	109.066	112.575	109.499	107.054	108.404
10:59	ZZZZZZ	105.392	111.722	111.465	111.083	111.004	109.886	107.896	105.38
11:04	ZZZZZZ	105.005	108.694	108.252	109.337	107.475	107.175	108.533	104.826
11:13	ZZZZZZ	104.413	109.795	108.662	108.462	109.139	108.783	106.969	104.224
11:18	ZZZZZZ	104.196	107.798	107.595	106.418	106.826	106.9	104.534	102.696
11:28	MA39257-CCVA1	104.408	107.865	107.871	106.513	106.141	106.474	104.677	101.452
11:34	MA39257-CCB1	104.738	107.759	107.526	111.896	106.471	105.778	109.985	104.358
11:38	ZZZZZZ	No results	s reported	for the e	elements as	sociated w	ith this i	nternal sta	andard.
11:42	ZZZZZZ	No results	s reported	for the e	elements as	sociated w	ith this i	nternal sta	andard.
11:47	ZZZZZZ	101.891	106.802	106.056	106.869	105.631	104.554	105.248	102.095
11:51	ZZZZZZ	104.372	108.34	107.543	107.653	107.842	105.948	104.98	103.522



# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV Analyst: JO Parameters: Pb

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Pala	meters. PD								
Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
11:56	ZZZZZZ	102.385	106.806	105.444	104.841	105.757	103.965	103.248	103.363
12:00	ZZZZZZ	100.867	104.749	103.036	103.604	105.048	102.752	102.17	101.426
12:05	ZZZZZZ	99.641	104.978	103.438	105.401	104.236	102.255	102.534	101.349
12:09	ZZZZZZ	102.613	107.276	105.531	105.992	105.422	103.898	104.135	103.02
12:13	MA39257-CCVA2	102.165	106.109	104.777	105.556	105.264	104.282	103.132	100.944
12:18	MA39257-CCB2	104.638	106.513	104.928	106.069	104.966	103.614	103.902	103.813
12:22	ZZZZZZ	103.342	105.339	103.632	105.008	104.324	102.801	103.654	102.773
12:27	ZZZZZZ	101.26	104.097	102.433	103.064	103.463	100.721	101.559	100.151
12:31	ZZZZZZ	99.837	101.785	100.315	101.782	101.313	99.87	100.204	99.766
12:36	MA39257-CRI2	97.602	101.671	99.866	101.218	100.947	99.532	100.059	98.72
12:40	ZZZZZZ	98.621	101.843	101.166	103.921	100.513	99.471	102.079	97.284
12:44	ZZZZZZ	99.551	103.092	101.979	103.516	101.485	100.679	102.385	98.186
12:49	ZZZZZZ	98.415	102.561	99.786	101.181	101.989	99.653	99.542	99.847
12:53	MA39257-CRI3	97.324	100.314	98.347	99.036	101.077	98.938	99.173	98.789
12:58	MA39257-CCVA3	95.529	101.325	99.701	99.338	100.458	99.027	97.134	97.204
13:02	MA39257-CCB3	96.898	99.516	97.991	98.58	98.903	97.36	98.007	97.07
13:07	ZZZZZZ	96.893	100.789	97.588	97.623	100.235	98.278	97.918	97.382
13:11	ZZZZZZ	94.625	99.568	97.214	97.629	100.626	97.936	97.049	96.477
13:15	ZZZZZZ	94.758	98.585	97.243	98.407	99.25	96.975	97.416	96.791
13:20	ZZZZZZ	94.082	98.06	95.973	97.694	98.214	96.284	97.249	96.023
13:24	ZZZZZZ	94.627	98.85	96.778	99.248	98.361	96.291	98.33	96.588
13:29	ZZZZZZ	95.275	97.887	95.285	97.989	98.23	96.071	97.107	97.232
13:33	ZZZZZZ	93.787	97.155	96.248	97.378	97.718	96.459	96.613	95.467
13:38	MA39257-CRI4	94.277	97.68	96.454	96.824	98.34	95.295	97.003	96.323
13:42	MA39257-CCVA4	93.631	97.526	97.27	96.817	97.705	96.328	96.97	95.443
13:46	MA39257-CCB4	94.074	97.885	95.962	97.12	97.174	95.273	95.568	96.519
13:51	MP93316-MB1	94.075	99.216	95.881	92.44	98.383	95.708	93.248	96.852
13:55	MP93316-B1	94.089	98.583	95.701	96.862	98.769	96.548	97.089	94.829
14:00	MP93316-S1	90.807	97.598	95.865	95.687	98.747	97.175	95.936	93.386
14:04	MP93316-S2	90.451	97.946	97.377	96.725	99.192	98.769	96.31	93.057
14:09	JC18920-1	92.101	99.727	98.035	97.235	99.701	98.533	96.123	93.038
14:13	ZZZZZZ	94.279	100.518	99.673	99.151	100.329	98.669	98.061	94.128
14:17	JC18921-1	94.973	101.699	99.486	99.034	100.481	98.935	97.392	94.904

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

File ID: XB042516M1.CSV Analyst: JO Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
14:22	JC18921-2	95.294	101.499	100.374	99.449	100.25	99.848	98.294	93.958
14:26	ZZZZZZ	98.888	101.526	99.759	100.237	100.269	97.19	98.179	98.016
14:31	MA39257-CCVA5	95.825	99.441	97.275	98.616	98.813	97.691	96.532	95.307
14:35	MA39257-CCB5	93.938	97.253	96.519	96.666	97.269	96.107	95.754	95.04
14:40	MP93268-MB1	94.743	97.693	96.799	97.833	97.931	96.744	97.27	95.481
14:44	MP93268-B1	93.576	96.984	96.024	96.697	98.092	97.431	97.328	95.078
14:48	MP93268-B1	93.265	96.828	95.171	97.74	97.065	96.505	97.117	94.969
14:53	MP93268-S1	92.972	96.758	94.733	95.326	96.94	95.338	95.673	93.426
14:57	MP93268-S1	93.112	96.591	94.331	96.324	97.067	95.19	96.393	94.022
15:02	MP93268-S2	92.685	96.985	94.705	95.661	97.353	95.48	95.981	94.019
15:06	MP93268-S2	92.484	95.625	93.622	95.352	96.087	95.444	95.796	93.864
15:10	ZZZZZZ	92.103	95.537	93.263	95.232	96.385	93.795	95.088	95.117
15:15	ZZZZZZ	91.646	97.95	96.797	96.973	99.343	97.142	96.228	93.319
15:19	MA39257-CCVA6	92.497	96.016	94.988	96.294	96.399	94.496	95.038	93.117
15:24	MA39257-CCB6	86.121	90.554	93.764	96.934	89.512	93.977	94.837	88.777
15:28	JC18553-2	93.28	96.784	94.978	96.727	96.603	95.996	96.845	94.144
15:33	ZZZZZZ	92.881	98.834	96.75	97.98	97.07	96.676	96.393	92.624
15:37	ZZZZZZ	94.677	100.472	95.978	98.079	98.345	96.403	96.199	94.372
15:42	ZZZZZZ	92.33	100.935	95.876	96.553	95.979	93.114	94.526	90.315
15:46	ZZZZZZ	93.13	101.615	96.831	98.114	95.707	94.076	95.402	89.905
15:50	ZZZZZZ	97.068	99.181	97.022	97.555	98.901	96.048	97.61	95.476
15:55	ZZZZZZ	95.437	98.79	96.249	97.287	98.003	96.111	96.876	94.496
15:59	ZZZZZZ	96.029	98.838	96.377	98.236	98.992	96.413	97.457	94.774
16:04	ZZZZZZ	95.724	97.493	96.129	97.743	97.945	95.383	97.022	94.833
16:08	ZZZZZZ	95.399	97.767	95.569	97.613	98.051	95.708	97.906	95.525
16:12	MA39257-CCVA7	93.65	96.284	94.106	94.174	96.36	93.539	93.813	92.868
16:17	MA39257-CCB7	93.236	94.994	93.849	95.531	95.039	93.082	94.885	93.395
16:21	MP93282-MB1	94.696	96.052	94.852	96.561	96.39	95.029	96.33	94.902
16:26	MP93282-B1	94.163	96.671	94.559	95.969	96.496	95.149	95.214	93.303
16:30	MP93282-B1	94.026	96.324	93.431	95.237	96.77	94.027	96.648	93.833
16:35	MP93282-S1	92.556	96.653	94.099	96.182	94.969	93.346	94.058	87.946
16:39	MP93282-S1	95.823	99.887	96.796	98.26	98.748	96.76	97.3	92.782
16:44	MP93282-S2	94.223	98.401	94.228	96.097	96.602	93.153	94.683	89.354



# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV Date Analyzed: 04/25/16 Methods: EPA 200.8, SW846 6020A Analyst: JO
Parameters: Pb Run ID: MA39257

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
16:48	MP93282-S2	94.098	97.91	95.148	95.795	96.323	93.342	94.456	90.821
16:52	ZZZZZZ	95.864	96.878	94.215	96.018	96.949	94.884	95.062	95.088
16:57	ZZZZZZ	94.914	97.52	94.99	95.953	97.098	94.847	95.928	94.284
17:01	MA39257-CCVA8	92.304	95.65	92.269	93.936	95.065	93.41	92.186	91.451
17:06	MA39257-CCB8	94.069	95.354	92.947	94.042	94.542	92.174	93.485	93.317
17:10	JC18565-1	94.269	95.752	93.781	95.887	96.662	93.288	94.88	94.003
17:15	ZZZZZZ	95.365	95.544	91.864	94.634	95.452	92.915	94.51	92.592
17:19	ZZZZZZ	94.469	96.058	92.912	95.747	96.532	93.547	95.435	92.767
17:23	ZZZZZZ	90.495	95.616	93.226	95.36	92.497	90.615	91.546	86.047
17:28	ZZZZZZ	92.545	96.901	92.636	94.064	94.339	90.68	91.044	86.005
17:32	ZZZZZZ	95.655	98.055	94.482	95.871	97.427	93.625	94.41	93.953
17:37	ZZZZZZ	92.681	96.603	93.593	95.64	93.653	91.201	91.997	86.349
17:41	ZZZZZZ	96.787	98.667	95.51	97.519	98.419	94.827	96.986	95.875
17:46	MA39257-CCVA9	94.16	95.047	92.044	92.438	95.057	92.14	92.153	91.583
17:50	MA39257-CCB9	91.763	94.197	90.452	91.494	93.653	91.211	90.988	91.727

<sup>! =</sup> Outside limits.

### LEGEND:

PEGEMD.			
Istd#	Parameter	Limits	
Istd#1	Lithium	60-125	%
Istd#2	Scandium (45-1)	60-125	용
Istd#3	Scandium (45-2)	60-125	용
Istd#4	Scandium (45-3)	60-125	용
Istd#5	Germanium (74-1)	60-125	용
Istd#6	Germanium (74-2)	60-125	용
Istd#7	Germanium (74-3)	60-125	용
Istd#8	Rhodium (103-1)	60-125	용



### Login Number: JC18921 Account: PARS - PARS Environmental Services

Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV

Analyst: JO

Date Analyzed: 04/25/16

Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Parameters: Pb Sample Istd#9 Istd#10 Istd#11 Istd#12 Istd#13 Istd#14 Istd#15 Istd#16 Time Description 09:11 MA39257-STD1 100 100 100 100 100 100 100 100 09:15 MA39257-STD2 100 100 100 100 100 100 100 100 09:20 MA39257-STD3 100 100 100 100 100 100 100 100 09:24 MA39257-STD4 100 100 100 100 100 100 100 100 09:29 MA39257-STD5 100 100 100 100 100 100 100 100 09:33 MA39257-STD6 100 100 100 100 100 100 100 100 99 49 99 036 100.354 100 723 98 983 100 211 09:38 MA39257-STD7 101 362 101 067 09:42 MA39257-STD8 100.25 98.991 100.825 101.032 101.992 101.032 98.66 100.65 09:46 MA39257-STD9 99.944 99.005 100.24 99.983 101.084 101.14 99.55 99.766 09:51 MA39257-STD10 99.82 99.985 99.881 100.947 99.865 99.961 100.523 99.661 09:55 MA39257-STD11 99.24 98.965 99.414 99.281 101.673 100.657 99.377 100.003 10:00 MA39257-STD12 99.758 99.706 102.115 101.533 102.036 102.605 100.892 101.095 MA39257-STD13 10:04 97.975 98.153 99.138 98.083 100.545 99.314 99.622 100.152 10:08 MA39257-STD14 96.497 96.101 99.862 97.723 101.954 99.597 98.826 101.445 10:13 MA39257-STD15 94.799 94.314 97.141 96.946 100.704 99.006 97.989 99.491 10:23 MA39257-STD16 100 100 100 100 100 100 100 100 10:28 MA39257-ICVA1 98.648 98.466 98.68 99.463 100.47 100.068 101.859 100.783 10:32 MA39257-ICV1 98.486 99.709 98.873 98.608 98.209 98.015 100.31 98.526 10:36 MA39257-TCB1 99 263 100 543 99 816 98 603 100 008 98 898 101 318 100 866 10:41 MA39257-CRI1 99.331 100.003 99.403 98.887 99.536 99.129 101.453 100.624 10:45 MA39257-ICSA1 86.642 88.726 91.294 92.565 94.786 92.688 94.145 95.693 10:50 MA39257-TCSAB1 89 734 91 175 96 708 96 616 97 295 95 059 95 293 96 776 10:55 ZZZZZZ 103.733 101.166 107.272 105.604 103.523 100.753 97.906 103.541 10:59 ZZZZZZ 103.143 101.783 106.214 105.777 105.749 102.992 101.412 106.158 11:04 7.7.7.7.7.7 103.205 103.738 104.361 100.68 100.901 102.521 105.348 103.453 11:13 ZZZZZZ 103.017 101.058 104.762 104.801 104.205 103.76 101.44 104.708 11:18 101.651 99.954 103.153 102.691 103.209 101.806 100.173 104.616 11:28 MA39257-CCVA1 100.974 99.129 102.656 102.493 102.814 101.361 99.428 102.89 11:34 MA39257-CCB1 103.782 107.116 104.202 103.684 102.282 101.016 104.471 103.309 11:38 ZZZZZZ No results reported for the elements associated with this internal standard. 11:42 22222 No results reported for the elements associated with this internal standard. 11:47 ZZZZZZ 101.318 99.974 101.727 100.646 98.431 97.61 97.194 99.152 11:51 ZZZZZZ 102.559 101.377 103.676 102.427 100.237 99.396 98.228 101.25

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

File ID: XB042516M1.CSV Analyst: JO Parameters: Pb

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
11:56	ZZZZZZ	100.734	99.58	103.272	101.18	100.512	97.442	96.683	99.939
12:00	ZZZZZZ	99.19	98.622	100.343	98.797	98.232	95.746	95.169	98.252
12:05	ZZZZZZ	98.692	99.073	100.033	99.175	97.601	95.426	96.458	98.614
12:09	ZZZZZZ	101.671	100.845	102.581	101.43	99.438	97.305	98.483	100.467
12:13	MA39257-CCVA2	98.581	98.402	101.365	99.823	100.899	98.432	98.718	100.606
12:18	MA39257-CCB2	102.344	101.967	102.867	100.825	100.453	98.299	99.968	101.833
12:22	ZZZZZZ	100.106	100.182	101.353	100.022	101.026	97.675	98.479	101.294
12:27	ZZZZZZ	98.981	98.774	99.961	98.745	97.595	95.556	96.613	98.459
12:31	ZZZZZZ	97.388	97.202	99.365	96.704	97.064	94.109	95.798	97.009
12:36	MA39257-CRI2	97.543	96.966	99.126	97.474	96.874	95.226	96.13	96.704
12:40	ZZZZZZ	97.486	97.522	96.703	96.806	95.306	94.148	95.212	95.29
12:44	ZZZZZZ	97.915	98.004	97.797	97.084	96.169	93.646	96.307	96.403
12:49	ZZZZZZ	98.183	97.103	98.734	97.725	96.949	94.802	95.766	97.537
12:53	MA39257-CRI3	96.828	96.77	98.774	96.958	96.613	94.318	95.793	96.695
12:58	MA39257-CCVA3	94.274	93.847	97.41	96.635	96.841	94.65	95.366	97.359
13:02	MA39257-CCB3	95.986	94.854	97.719	96.974	95.905	93.617	93.992	95.812
13:07	ZZZZZZ	95.408	95.291	98.132	95.595	96.538	94.732	95.387	96.626
13:11	ZZZZZZ	95.963	94.364	97.198	96.98	96.53	95.473	95.528	97.155
13:15	ZZZZZZ	94.967	93.982	96.964	96.493	96.372	94.369	96.016	96.875
13:20	ZZZZZZ	95.03	95.074	96.482	95.35	94.459	92.485	94.987	95.952
13:24	ZZZZZZ	95.869	96.838	96.924	96.268	95.085	93.751	95.742	95.487
13:29	ZZZZZZ	94.644	95.17	96.335	95.124	95.032	92.887	94.685	95.574
13:33	ZZZZZZ	94.279	94.621	95.917	95.181	94.549	91.56	93.843	94.012
13:38	MA39257-CRI4	95.195	94.491	96.125	96.507	95.221	93.185	94.985	95.227
13:42	MA39257-CCVA4	93.301	92.621	96.559	95.235	95.713	93.576	94.574	95.52
13:46	MA39257-CCB4	94.335	95.114	96.175	95.233	94.2	92.511	93.95	94.402
13:51	MP93316-MB1	94.844	89.156	96.702	95.809	94.569	91.984	89.04	95.08
13:55	MP93316-B1	93.976	94.293	95.735	95.688	94.799	93.169	95.033	95.59
14:00	MP93316-S1	91.467	90.448	95.304	95.693	96.751	94.187	95.082	97.267
14:04	MP93316-S2	91.656	90.186	95.251	96.737	95.651	94.573	95.018	95.56
14:09	JC18920-1	91.091	90.664	96.823	97.495	96.719	94.696	95.204	96.059
14:13	ZZZZZZ	91.372	90.058	96.599	98.546	96.657	94.605	95.867	96.734
14:17	JC18921-1	92.086	90.622	96.865	98.727	96.079	94.369	94.062	97.208



# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV Analyst: JO Parameters: Pb

Date Analyzed: 04/25/16

Methods: EPA 200.8, SW846 6020A Run ID: MA39257

Para	Parameters: Pb									
Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16	
14:22	JC18921-2	91.982	91.052	97.306	98.547	95.891	94.984	95.071	96.525	
14:26	ZZZZZZ	95.155	95.146	96.809	96.95	93.571	92.325	94.35	94.27	
14:31	MA39257-CCVA5	95.047	93.7	95.748	95.775	95.809	94.208	96.117	96.298	
14:35	MA39257-CCB5	94.067	93.261	95.44	95.418	93.196	92.427	93.823	93.152	
14:40	MP93268-MB1	95.103	95.634	97.017	96.329	93.457	92.61	95.053	94.337	
14:44	MP93268-B1	94.449	93.898	95.701	96.088	94.155	93.962	95.215	94.577	
14:48	MP93268-B1	95.089	93.647	95.057	95.563	94.249	93.685	95.563	94.868	
14:53	MP93268-S1	93.321	92.152	94.875	94.841	94.69	93.478	94.506	94.783	
14:57	MP93268-S1	93.858	93.581	94.506	95.739	93.238	93.037	94.498	93.476	
15:02	MP93268-S2	93.732	92.304	94.802	94.773	93.986	93.077	93.89	94.883	
15:06	MP93268-S2	93.517	92.656	94.714	94.697	94.138	92.677	93.4	94.168	
15:10	ZZZZZZ	93.34	93.321	95.432	94.098	92.836	90.74	93.202	94.118	
15:15	ZZZZZZ	90.693	90.228	96.196	96.538	96.055	93.982	95.731	96.018	
15:19	MA39257-CCVA6	91.733	91.913	93.182	94.162	93.013	92.37	94.238	93.916	
15:24	MA39257-CCB6	93.2	93.291	89.257	93.576	88.08	91.032	93.762	88.2	
15:28	JC18553-2	93.91	93.199	95.359	96.336	94.53	92.271	94.387	94.451	
15:33	ZZZZZZ	91.787	92.049	94.814	95.925	94.42	93.249	94.732	94.465	
15:37	ZZZZZZ	92.677	92.59	96.783	95.673	95.837	92.664	95.069	96.516	
15:42	ZZZZZZ	87.369	87.554	92.343	92.383	92.61	90.408	92.669	93.01	
15:46	ZZZZZZ	88.592	88.511	92.562	92.471	92.85	90.619	93.158	92.615	
15:50	ZZZZZZ	94.593	94.223	95.879	96.781	94.38	93.212	95.021	94.528	
15:55	ZZZZZZ	93.629	93.653	96.391	96.215	93.917	92.857	94.856	93.822	
15:59	ZZZZZZ	93.674	93.026	96.18	95.974	94.247	92.26	93.96	94.403	
16:04	ZZZZZZ	94.349	93.846	96.158	96.019	93.39	91.884	94.973	93.42	
16:08	ZZZZZZ	93.858	95.282	96.376	95.388	94.122	92.624	95.236	94.093	
16:12	MA39257-CCVA7	91.061	90.028	93.839	92.892	93.73	91.421	92.424	94.163	
16:17	MA39257-CCB7	92.209	92.997	94.341	93.372	92.234	90.396	92.653	92.443	
16:21	MP93282-MB1	93.762	94.315	94.244	93.445	93.762	91.271	94.483	93.186	
16:26	MP93282-B1	92.964	92.649	93.808	94.379	93.052	92.065	94.075	93.459	
16:30	MP93282-B1	92.971	93.519	94.869	94.09	93.468	92.011	94.496	93.938	
16:35	MP93282-S1	86.244	86.702	89.974	89.58	91.899	89.995	91.336	92.583	
16:39	MP93282-S1	90.484	90.766	93.565	93.425	93.84	92.548	94.478	93.856	
16:44	MP93282-S2	87.072	86.817	91.132	90.078	91.138	90.1	91.421	93.172	

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV Analyst: JO

Parameters: Pb

Date Analyzed: 04/25/16

Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
16:48	MP93282-S2	88.543	88.502	91.868	91.092	92.641	89.982	92.265	93.003
16:52	ZZZZZZ	93.156	93.22	94.908	94.594	92.784	91.231	93.027	93.264
16:57	ZZZZZZ	92.949	93.673	94.572	93.038	92.011	90.715	93.324	92.605
17:01	MA39257-CCVA8	89.883	89.205	93.144	92.558	91.957	91.07	92.051	93.256
17:06	MA39257-CCB8	91.22	91.824	92.889	92.254	91.368	89.286	91.843	91.211
17:10	JC18565-1	92.572	93.512	93.823	92.989	91.683	90.409	93.296	92.509
17:15	ZZZZZZ	90.792	92.611	94.218	92.901	92.833	90.386	93.133	92.888
17:19	ZZZZZZ	92.029	92.054	93.86	93.259	92.587	90.475	92.799	92.856
17:23	ZZZZZZ	84.023	84.567	88.065	87.952	89.307	87.272	89.973	90.345
17:28	ZZZZZZ	84.381	83.893	88.187	88.196	89.032	87.167	89.369	90.09
17:32	ZZZZZZ	92.25	93.063	93.441	92.594	90.659	89.52	92.361	92.421
17:37	ZZZZZZ	84.619	85.02	88.546	88.698	89.181	87.409	89.857	90.337
17:41	ZZZZZZ	93.218	94.066	95.444	94.708	92.704	90.936	93.489	93.289
17:46	MA39257-CCVA9	90.419	90.183	92.636	92.055	93.03	90.446	92.792	93.938
17:50	MA39257-CCB9	90.222	88.584	92.274	91.643	90.357	88.695	88.995	90.372

<sup>! =</sup> Outside limits.

### LEGEND:

песеир.		
Istd#	Parameter	Limits
Istd#9	Rhodium (103-2)	60-125 %
Istd#10	Rhodium (103-3)	60-125 %
Istd#11	Indium (115-1)	60-125 %
Istd#12	Indium (115-2)	60-125 %
Istd#13	Terbium (159-1)	60-125 %
Istd#14	Terbium (159-2)	60-125 %
Istd#15	Terbium (159-3)	60-125 %
Istd#16	Holmium (165-1)	60-125 %



# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV Analyst: JO Parameters: Pb

Date Analyzed: 04/25/16

Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

rara											
Time	Sample Description	Istd#17	Istd#18	Istd#19							
09:11	MA39257-STD1	100	100	100							
09:15	MA39257-STD2	100	100	100							
09:20	MA39257-STD3	100	100	100							
09:24	MA39257-STD4	100	100	100							
09:29	MA39257-STD5	100	100	100							
09:33	MA39257-STD6	100	100	100							
09:38	MA39257-STD7	100.716	100.142	100.493							
09:42	MA39257-STD8	101.299	102.384	102.182							
09:46	MA39257-STD9	100.935	101.291	101.871							
09:51	MA39257-STD10	101.142	100.701	101.818							
09:55	MA39257-STD11	100.103	101.935	101.312							
10:00	MA39257-STD12	101.935	101.097	101.01							
10:04	MA39257-STD13	99.959	99.466	98.782							
10:08	MA39257-STD14	100.432	99.102	97.975							
10:13	MA39257-STD15	99.401	95.989	96.591							
10:23	MA39257-STD16	100	100	100							
10:28	MA39257-ICVA1	99.683	98.85	97.232							
10:32	MA39257-ICV1	97.937	99.221	97.345							
10:36	MA39257-ICB1	98.952	100.384	99.028							
10:41	MA39257-CRI1	98.309	100.649	98.219							
10:45	MA39257-ICSA1	92.665	88.373	84.368							
10:50	MA39257-ICSAB1	94.29	88.673	85.193							
10:55	ZZZZZZ	99.261	100.811	96.467							
10:59	ZZZZZZ	102.913	101.727	98.682							
11:04	ZZZZZZ	99.342	100.883	98.007							
11:13	ZZZZZZ	103.172	100.381	98.222							
11:18	ZZZZZZ	101.155	99.673	97.157							
11:28	MA39257-CCVA1	101.322	98.592	97.384							
11:34	MA39257-CCB1	100.029	100.599	98.427							
11:38	ZZZZZZ	No result	s reported	for the	elements	associated	with	this	internal	standard.	
11:42	ZZZZZZ	No result	s reported	for the	elements	associated	with	this	internal	standard.	
11:47	ZZZZZZ	96.706	97.984	95.27							
11:51	ZZZZZZ	98.24	100.012	96.744							

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

Methods: EPA 200.8, SW846 6020A

File ID: XB042516M1.CSV Analyst: JO Parameters: Pb

Date Analyzed: 04/25/16 Run ID: MA39257

[ime	Sample Description	Istd#17	Istd#18	Istd#19
11:56	ZZZZZZ	96.673	99.064	95.546
12:00	ZZZZZZ	95.229	97.181	93.797
12:05	ZZZZZZ	94.613	96.4	93.323
12:09	ZZZZZZ	96.619	98.353	96.123
12:13	MA39257-CCVA2	97.626	97.459	94.353
12:18	MA39257-CCB2	98.418	99.914	96.626
12:22	ZZZZZZ	97.079	99.631	96.074
12:27	ZZZZZZ	95.476	97.73	94.254
12:31	ZZZZZZ	93.84	95.375	92.215
12:36	MA39257-CRI2	94.021	95.092	92.011
12:40	ZZZZZZ	93.253	96.885	93.713
12:44	ZZZZZZ	93.244	95.673	92.768
12:49	ZZZZZZ	94.316	95.669	92.431
12:53	MA39257-CRI3	93.331	95.777	92.405
12:58	MA39257-CCVA3	93.701	94.529	90.272
13:02	MA39257-CCB3	92.741	94.957	91.782
13:07	ZZZZZZ	93.676	95.521	92.532
13:11	ZZZZZZ	95.182	95.535	92.864
13:15	ZZZZZZ	93.899	95.262	92.073
13:20	ZZZZZZ	92.031	94.277	90.854
13:24	ZZZZZZ	92.821	94.802	91.894
13:29	ZZZZZZ	91.686	94.799	90.521
13:33	ZZZZZZ	90.59	92.921	90.524
13:38	MA39257-CRI4	92.326	94.165	91.41
13:42	MA39257-CCVA4	93.096	92.584	90.038
13:46	MA39257-CCB4	91.601	93.311	90.683
13:51	MP93316-MB1	91.785	94.895	91.081
13:55	MP93316-B1	92.649	93.657	92.137
14:00	MP93316-S1	94.349	91.47	89.54
14:04	MP93316-S2	94.065	90.908	88.575
14:09	JC18920-1	94.064	90.686	88.897
14:13	ZZZZZZ	93.967	90.83	89.128
14:17	JC18921-1	94.329	90.499	89.412



# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV Analyst: JO Parameters: Pb

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Para	meters: Pb			
Time	Sample Description	Istd#17	Istd#18	Istd#19
14:22	JC18921-2	94.439	88.692	88.537
14:26	ZZZZZZ	90.828	94.611	91.47
14:31	MA39257-CCVA5	94.119	93.202	91.099
14:35	MA39257-CCB5	91.456	93.006	90.812
14:40	MP93268-MB1	92.316	94.79	92.892
14:44	MP93268-B1	93.501	94.19	92.569
14:48	MP93268-B1	93.035	93.818	92.291
14:53	MP93268-S1	92.579	93.818	91.087
14:57	MP93268-S1	92.482	92.935	91.181
15:02	MP93268-S2	92.711	92.034	90.448
15:06	MP93268-S2	91.48	92.549	90.061
15:10	ZZZZZZ	90.315	92.608	89.215
15:15	ZZZZZZ	93.242	91.919	89.158
15:19	MA39257-CCVA6	92.34	90.168	88.782
15:24	MA39257-CCB6	89.673	86.627	89.312
15:28	JC18553-2	92.322	94.087	92.699
15:33	ZZZZZZ	92.623	93.171	91.137
15:37	ZZZZZZ	92.719	94.427	90.449
15:42	ZZZZZZ	90.112	88.617	85.047
15:46	ZZZZZZ	90.148	88.306	85.274
15:50	ZZZZZZ	92.733	94.205	92.051
15:55	ZZZZZZ	92.845	94.503	92.71
15:59	ZZZZZZ	91.629	93.615	90.965
16:04	ZZZZZZ	91.52	93.711	92.077
16:08	ZZZZZZ	92.415	93.365	92.161
16:12	MA39257-CCVA7	90.782	91.315	88.06
16:17	MA39257-CCB7	89.366	91.276	88.17
16:21	MP93282-MB1	91.1	93.653	90.167
16:26	MP93282-B1	92.476	91.68	90.478
16:30	MP93282-B1	91.665	93.349	90.165
16:35	MP93282-S1	89.774	85.816	83.4
16:39	MP93282-S1	92.157	89.671	87.068
16:44	MP93282-S2	89.542	86.253	83.76

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Analyst: JO
Parameters: Pb

Time	Sample Description	Istd#17	Istd#18	Istd#19
16:48	MP93282-S2	90.288	87.835	85.832
16:52	ZZZZZZ	90.632	91.667	89.537
16:57	ZZZZZZ	90.419	92.299	89.7
17:01	MA39257-CCVA8	90.006	89.567	87.41
17:06	MA39257-CCB8	88.639	89.434	87.245
17:10	JC18565-1	89.916	92.102	89.453
17:15	ZZZZZZ	90.356	93.273	90.377
17:19	ZZZZZZ	89.96	91.927	88.943
17:23	ZZZZZZ	86.813	83.144	80.617
17:28	ZZZZZZ	87.064	83.366	80.131
17:32	ZZZZZZ	89.576	91.074	88.38
17:37	ZZZZZZ	87.072	84.073	80.782
17:41	ZZZZZZ	90.189	92.321	88.342
17:46	MA39257-CCVA9	90.008	90.445	87.533
17:50	MA39257-CCB9	88.25	89.782	86.959
! = Ou	tside limits.			

<sup>! =</sup> Outside limits.

# LEGEND:

Istd#	Paramete	er	Limits	
Istd#17	Holmium	(165-2)	60-125	%
Istd#18	Bismuth	(209-1)	60-125	%
Tstd#19	Bismuth	(209-2)	60-125	용



**ACCUTEST** 

# BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV QC Limits: result < RL

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Units: ug/l

Time: Sample ID:			10:36 ICB1		11:34 CCB1		12:18 CCB2		13:02 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	25	.34								
Antimony	2.0	.12	anr							
Arsenic	0.50	.025	anr							
Barium	1.0	.011								
Beryllium	0.50	.004	anr							
Boron	25	3.2								
Cadmium	0.50	.011	anr							
Calcium	250	2.7								
Chromium	1.0	.016	anr							
Cobalt	0.50	.003								
Copper	2.0	.1	anr							
Iron	25	.51	anr							
Lead	0.50	.009	-0.0015	<0.50	0.0080	<0.50	0.016	<0.50	0.0096	<0.50
Magnesium	250	.39								
Manganese	1.0	.02	anr							
Molybdenum	1.0	.02								
Nickel	1.0	.025	anr							
Potassium	250	4.9								
Selenium	0.50	.031	anr							
Silver	0.50	.019	anr							
Sodium	250	8.7								
Strontium	5.0	.009								
Thallium	0.50	.016	anr							
Tin	5.0	.019								
Titanium	1.0	.047								
Vanadium	1.0	.045								
Zinc	5.0	.11	anr							



# BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV QC Limits: result < RL

Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Units: ug/l

Q0 21100 10.	J410 - 141	=		10011	1111072	
Time: Sample ID:			13:46 CCB4	I	14:35 CCB5	I
Metal	RL	IDL	raw	final	raw	final
Aluminum	25	. 34				
Antimony	2.0	.12	anr			
Arsenic	0.50	.025	anr			
Barium	1.0	.011				
Beryllium	0.50	.004	anr			
Boron	25	3.2				
Cadmium	0.50	.011	anr			
Calcium	250	2.7				
Chromium	1.0	.016	anr			
Cobalt	0.50	.003				
Copper	2.0	.1	anr			
Iron	25	.51	anr			
Lead	0.50	.009	0.024	<0.50	0.024	<0.50
Magnesium	250	.39				
Manganese	1.0	.02	anr			
Molybdenum	1.0	.02				
Nickel	1.0	.025	anr			
Potassium	250	4.9				
Selenium	0.50	.031	anr			
Silver	0.50	.019	anr			
Sodium	250	8.7				
Strontium	5.0	.009				
Thallium	0.50	.016	anr			
Tin	5.0	.019				
Titanium	1.0	.047				
Vanadium	1.0	.045				
Zinc	5.0	.11	anr			
21110	5.5		GIII			

(\*) Outside of QC limits (anr) Analyte not requested

SGS ACCUTEST

# CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Units: ug/l

Time: Sample ID: Metal	ICVA True	10:28 ICVA1 Results	% Rec	ICV True	10:32 ICV1 Results	% Rec	CCVA True	11:28 CCVA1 Results	% Rec	
Aluminum										
Antimony	anr									
Arsenic	anr									
Barium										
Beryllium	anr									
Boron										
Cadmium	anr									
Calcium										
Chromium	anr									
Cobalt										
Copper	anr									
Iron	anr									
Lead	60	57.9	96.5				50	50.3	100.6	
Magnesium										
Manganese	anr									
Molybdenum										
Nickel	anr									
Potassium										
Selenium	anr									
Silver	anr									
Sodium										
Strontium										
Thallium	anr									
Tin										
Titanium										
Vanadium										
Zinc	anr									



# CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Units: ug/l

Time: Sample ID: Metal	CCVA True	12:13 CCVA2 Results	% Rec	CCVA True	12:58 CCVA3 Results	% Rec	CCVA True	13:42 CCVA4 Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium									
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	50	49.7	99.4	50	49.4	98.8	50	49.7	99.4
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

# CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Units: ug/l

Metal True Results % Rec  Aluminum Antimony anr Arsenic anr Barium Beryllium anr Boron Cadmium anr Calcium Chromium anr Iron anr Lead 50 49.4 98.8  Magnesium Manganese anr Molybdenum Nickel anr Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium Zinc anr	Time: Sample ID:	CCVA	14:31 CCVA5	
Antimony anr Arsenic anr Barium Beryllium anr Boron Cadmium anr Calcium Chromium anr Cobalt Copper anr Iron anr Lead 50 49.4 98.8 Magnesium Manganese anr Molybdenum Nickel anr Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium				% Rec
Arsenic anr Barium Beryllium anr Boron Cadmium anr Calcium Chromium anr Cobalt Copper anr Iron anr Lead 50 49.4 98.8 Magnesium Manganese anr Molybdenum Nickel anr Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Aluminum			
Barium Beryllium anr Boron Cadmium anr Calcium Chromium anr Cobalt Copper anr Iron anr Lead 50 49.4 98.8 Magnesium Manganese anr Molybdenum Nickel anr Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Antimony	anr		
Beryllium anr Boron  Cadmium anr Calcium  Chromium anr Cobalt  Copper anr Iron anr Lead 50 49.4 98.8  Magnesium  Manganese anr Molybdenum  Nickel anr Potassium  Selenium anr Silver anr Sodium  Strontium  Thallium anr Tin Titanium  Vanadium	Arsenic	anr		
Boron Cadmium anr Calcium Chromium anr Cobalt Copper anr Iron anr Lead 50 49.4 98.8 Magnesium Manganese anr Molybdenum Nickel anr Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Barium			
Cadmium anr Calcium Chromium anr Cobalt Copper anr Iron anr Lead 50 49.4 98.8 Magnesium Manganese anr Molybdenum Nickel anr Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Beryllium	anr		
Calcium Chromium anr Cobalt Copper anr Iron anr Lead 50 49.4 98.8 Magnesium Manganese anr Molybdenum Nickel anr Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Boron			
Chromium anr Cobalt  Copper anr Iron anr Lead 50 49.4 98.8  Magnesium  Manganese anr Molybdenum  Nickel anr Potassium  Selenium anr Silver anr Sodium  Strontium  Thallium anr Tin Titanium  Vanadium	Cadmium	anr		
Cobalt Copper anr Iron anr Lead 50 49.4 98.8  Magnesium Manganese anr Molybdenum Nickel anr Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Calcium			
Copper anr Iron anr Lead 50 49.4 98.8  Magnesium  Manganese anr Molybdenum  Nickel anr Potassium  Selenium anr Silver anr Sodium  Strontium  Thallium anr Tin Titanium  Vanadium	Chromium	anr		
Iron anr Lead 50 49.4 98.8  Magnesium  Manganese anr  Molybdenum  Nickel anr  Potassium  Selenium anr  Silver anr  Sodium  Strontium  Thallium anr  Tin  Titanium  Vanadium	Cobalt			
Iron anr Lead 50 49.4 98.8  Magnesium  Manganese anr Molybdenum  Nickel anr Potassium  Selenium anr Silver anr Sodium  Strontium  Thallium anr  Tin  Titanium  Vanadium	Copper	anr		
Lead 50 49.4 98.8  Magnesium  Manganese anr  Molybdenum  Nickel anr  Potassium  Selenium anr  Silver anr  Sodium  Strontium  Thallium anr  Tin  Titanium  Vanadium		anr		
Magnesium  Manganese anr  Molybdenum  Nickel anr  Potassium  Selenium anr  Silver anr  Sodium  Strontium  Thallium anr  Tin  Titanium  Vanadium			49.4	98.8
Manganese anr Molybdenum Nickel anr Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium		- 0		
Molybdenum Nickel anr Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium		anr		
Nickel anr Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium		GIII		
Potassium  Selenium anr  Silver anr  Sodium  Strontium  Thallium anr  Tin  Titanium  Vanadium				
Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium		dnr		
Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium				
Sodium Strontium Thallium anr Tin Titanium Vanadium				
Strontium Thallium anr Tin Titanium Vanadium		anr		
Thallium anr Tin Titanium Vanadium				
Tin Titanium Vanadium	Strontium			
Titanium Vanadium	Thallium	anr		
Vanadium	Tin			
	Titanium			
Zinc anr	Vanadium			
	Zinc	anr		

# LOW CALIBRATION CHECK STANDARDS SUMMARY

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV QC Limits: 70 to 130 % Recovery Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Units: ug/l

Q0 1110D 70		110001017		11011 1			011100 43			
Time: Sample ID: Metal		CRIA True	10:41 CRI1 Results	% Rec	12:36 CRI2 Results	% Rec	12:53 CRI3 Results	% Rec	13:38 CRI4 Results	% Rec
Aluminum	25	25								
Antimony	2.0	0.25	anr							
Arsenic	0.50	0.50	anr							
Barium	1.0	0.50								
Beryllium	0.50	0.25	anr							
Boron	25	2.5								
Cadmium	0.50	0.25	anr							
Calcium	250	125								
Chromium	1.0	2.0	anr							
Cobalt	0.50	0.25								
Copper	2.0	2.0	anr							
Iron	25	25	anr							
Lead	0.50	0.25	0.50	100.0	0.50	100.0	0.48	96.0	0.50	100.0
Magnesium	250	125								
Manganese	0.50	0.25	anr							
Molybdenum	1.0	0.50								
Nickel	1.0	2.0	anr							
Potassium	250	125								
Selenium	0.50	0.50	anr							
Silver	0.50	1.0	anr							
Sodium	250	125								
Strontium	5.0	0.50								
Thallium	0.50	0.25	anr							
Tin	5.0	0.50								
Titanium	1.0	0.50								
Vanadium	1.0	2.0								
Zinc	5.0	2.0	anr							



# INTERFERING ELEMENT CHECK STANDARDS SUMMARY Part 1 - ICSA and ICSAB Standards

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

File ID: XB042516M1.CSV QC Limits: 80 to 120 % Recovery Date Analyzed: 04/25/16 Run ID: MA39257

Methods: EPA 200.8, SW846 6020A

Units: ug/l

Time: Sample ID: Metal	ICSA True	ICSAB True	10:45 ICSA1 Results	% Rec	10:50 ICSAB1 Results	% Rec
Aluminum	100000	100000	97500	97.5	99600	99.6
Antimony			-0.033		-0.050	
Arsenic		20	0.11		18.4	92.0
Barium			0.13		0.16	
Beryllium			0.011		0.0079	
Boron			3.6		1.6	
Cadmium		20	0.80		18.9	94.5
Calcium	100000	100000	94300	94.3	96900	96.9
Chromium		20	1.2		19.2	96.0
Cobalt		20	0.024		17.5	87.5
Copper		20	0.61		16.9	84.5
Iron	100000	100000	87600	87.6	87500	87.5
Lead			0.20		0.21	
Magnesium	100000	100000	90800	90.8	92600	92.6
Manganese		20	0.34		18.8	94.0
Molybdenum	2000	2000	1880	94.0	1930	96.5
Nickel		20	0.22		16.9	84.5
Potassium	100000	100000	99600	99.6	103000	103.0
Selenium		20	0.027		18.1	90.5
Silver		20	0.024		19.1	95.5
Sodium	100000	100000	95300	95.3	97000	97.0
Strontium			0.73		0.75	
Thallium			0.017		0.0040	
Tin			0.16		0.12	
Titanium	2000	2000	2000	100.0	2030	101.5
Vanadium		20	0.10		20.3	101.5
Zinc		20	1.1		17.1	85.5

(\*) Outside of QC limits (anr) Analyte not requested

SGS ACCUTEST

# BLANK RESULTS SUMMARY Part 2 - Method Blanks

# Login Number: JC18921

Account: PARS - PARS Environmental Services
Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

QC Batch ID: MP93316 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:					04/25/16
Metal	RL	IDL	MDL	MB raw	final
Antimony	0.0020	.00012	.00021		
Barium	0.0010	.000011	.000044		
Beryllium	0.00030	.000004	.000079		
Boron	0.050	.0032			
Calcium	0.25	.0027	.0075		
Lead	0.00050	.000009	.000018	0.000012	<0.00050
Molybdenum	0.0010	.00002	.000059		
Silver	0.0020	.000019	.000022		
Strontium	0.0010	.000009	.000014		
Thallium	0.00050	.000016	.0001		
Tin	0.0010	.000039	.000043		

Associated samples MP93316: JC18921-1, JC18921-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

# MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC18921 Account: PARS - PARS Environmental Services

Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

QC Batch ID: MP93316 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

04/25/16 Prep Date:

Metal	JC18920 Origina		Spikelot MPXDW7	% Rec	QC Limits
Antimony					
Barium					
Beryllium					
Boron					
Calcium					
Lead	0.011	0.11	0.10	99.0	70-130
Molybdenum					
Silver					
Strontium					
Thallium					
Tin					

Associated samples MP93316: JC18921-1, JC18921-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested



# MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC18921

Account: PARS - PARS Environmental Services

Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

QC Batch ID: MP93316 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/25/16

Metal	JC18920 Origina		Spikelo MPXDW7	t % Rec	MSD RPD	QC Limit
Antimony						
Barium						
Beryllium						
Boron						
Calcium						
Lead	0.011	0.11	0.10	99.0	0.0	20
Molybdenum						
Silver						
Strontium						
Thallium						
Tin						

Associated samples MP93316: JC18921-1, JC18921-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

# SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC18921 Account: PARS - PARS Environmental Services

Project: WWP Schools-High School South, 346 Clarksville Road, Princeton Junction, NJ

QC Batch ID: MP93316 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date: 04/25/16

Metal	BSP Result	Spikelot MPXDW7	% Rec	QC Limits
Antimony				
Barium				
Beryllium				
Boron				
Calcium				
Lead	0.094	0.10	94.0	85-115
Molybdenum				
Silver				
Strontium				
Thallium				
Tin				

Associated samples MP93316: JC18921-1, JC18921-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

\_\_\_\_





# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT HIGH SCHOOL SOUTH APRIL 2016

# APPENDIX B LABORATORY CERTIFICATION

# State of New Jersey Department of Environmental Protection Certifies That SGS Accutest Inc. – Wheat Ridge

Laboratory Certification ID # CO007

is hereby approved as a

Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2016



Mille M. Potte p ggt

Joseph F. Aiello Assistant Director

NJDEP is a NELAP Recognized Accreditation Body



# State of New Jersey Department of Environmental Protection Certifies That SGS Accutest Inc. - Dayton Laboratory Certification ID # 12129

is hereby approved as a

### Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2016



Muhile M. Pott pr 324

Joseph F. Aiello Assistant Director



NJDEP is a NELAP Recognized Accreditation Body



### LEAD IN DRINKING WATER TESTING REPORT

WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT MAURICE HAWK ELEMENTARY SCHOOL 303-305 CLARKSVILLE ROAD WEST WINDSOR, NEW JERSEY 08550

#### PREPARED FOR

West Windsor-Plainsboro Regional School District 505 Village Road West PO Box 505 West Windsor, New Jersey 08550

#### PREPARED BY

PARS Environmental, Inc. 500 Horizon Drive, Suite 540 Robbinsville, New Jersey 08691

Tel: 609-890-7277 Fax: 609-890-9116

PARS Project No. 565-84

**May 2016** 



#### **PARS**

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APPENDIX B LABORATORY ANALYTICAL REPORT – APRIL 19, 2016
APPENDIX C LABORATORY ANALYTICAL REPORT –APRIL 30, 2016

#### APPENDIX D

LABORATORY CERTIFICATION



**PARS** 

#### **EXECUTIVE SUMMARY**

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Maurice Hawk Elementary School (MHES). PARS conducted the lead in drinking water testing on March 29, April 19, and April 30, 2016. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the United States Environmental Protection Agency (USEPA) 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (USEPA 3Ts). PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

#### **FINDINGS**

The USEPA National Primary Drinking Water Regulations requires that immediate action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 milligrams per liter (mg/l). An exceedance of the 0.015 mg/l action level was identified in MHES at one (1) drinking water fountain location (Room 165; 0.016 mg/l) on March 29. This location was resampled on April 19, where primary and flush samples were collected. Both samples exceeded the action level (0.210 mg/l and 0.038 mg/l, respectively).

Based on the March 29 and April 19 sample results, the sampling was expanded to adjacent rooms to Room 165 as well as other strategic points throughout the school. This additional sampling was completed on April 30. Laboratory results showed exceedances in four (4) drinking water fountains in Rooms 164, 166, 167, and 170 ranging from 0.017 mg/l to 0.540 mg/l. All other samples were below the action level.

Analytical results indicate a ubiquitous lead concern with the water supply front hall of the building. All other areas of the building showed lead in drinking water results below the action level. Based on this information, PARS recommends the following:

- All drinking water fountains be removed from service immediately.
- An alternative drinking water source should be provided to the building occupants in this area.



**PARS** 

- Staff and students should be informed that hand sinks in this area are to be utilized for hand washing only. All sinks should also be flushed for a minimum of 30 seconds prior to use.
- A permanent remedy (replacement, filtration, etc.) should be implemented for the water sources located
- PARS recommends periodic flushing of the school taps and testing per state and federal regulations.



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#### 1.0 INTRODUCTION

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Maurice Hawk Elementary School (MHES). The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the *USEPA 3Ts*. PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

Sampling methodology is described in Section 2.0, the Lead in Drinking Water Findings are discussed in Section 3.0, and the Conclusions and Recommendations are presented in Section 4.0. A list of the sample locations and results are provided in **Tables 1, 2, and 3**. The Laboratory Analytical Reports for the three (3) sampling events are provided in **Appendices A, B, and C**. Laboratory certifications are included as **Appendix D**.

This report is intended for the sole use of WWP. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations, is at risk of said user.



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#### 2.0 LEAD IN DRINKING WATER SAMPLING

PARS conducted lead in drinking water testing at the MHES on March 29, April 19, and April 30, 2016. The lead in drinking water sampling was conducted by Christa Casciolini, Melissa Konieczny, Mike Nixon, and Jessica Perrini of PARS.

PARS performed lead in drinking water testing at a total of seven (7) drinking water fountains (bubbler and cooler units) and three (3) faucets in the nurse's office, kitchen, and faculty room locations in the elementary school on March 29. The April 19 sampling event included collecting primary and flush samples from the drinking water fountain in Room 165. On April 30, PARS collected samples from ten (10) drinking water fountains and two (2) classroom faucets.

All samples on March 29 and April 30 were collected following the USEPA First Draw sampling protocol. The First Draw sample collection occurred in the morning prior to the facility opening and before any water was drawn in the building, including toilet flushing. The water was unused for six (6) to eight (8) hours prior to collection. Arrangements were made to sample the water outlets prior to the arrival of teachers and students.

The samples on April 19 were collected following the USEPA First Draw and Flush Draw sampling protocols. The First Draw sample collection followed the protocol as described above. The Flush Draw sample protocol included running the drinking water fountain for 30 seconds following the collection of the First Draw and then collecting the sample.

The samples were placed in pre-preserved plastic bottles and submitted for laboratory analysis to SGS Accutest for two-week turnaround. SGS Accutest is a New Jersey Department of Environmental Protection (NJDEP) certified laboratory for lead in drinking water (NELAC #CO007). All samples were analyzed using USEPA Method 200.8 for the determination of trace elements in waters and wastes by inductively coupled plasma – mass spectrometry (ICP-MS). Chain-of-custody protocols were followed.



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#### 3.0 LEAD IN DRINKING WATER FINDINGS

An exceedance of the 0.015 mg/l action level was identified in MHES at one (1) drinking water fountain location (Room 165; 0.016 mg/l) on March 29. This location was resampled on April 19, where primary and flush samples were collected. Both samples exceeded the action level (0.210 mg/l and 0.038 mg/l, respectively).

The April 30 laboratory results showed exceedances in four (4) drinking water fountains in Rooms 164, 166, 167, and 170 ranging from 0.017 mg/l to 0.540 mg/l. All other samples were below the action level.

A list of the sample locations and results are provided in **Tables 1, 2, and 3**. The Laboratory Analytical Reports for the three (3) sampling events are provided in **Appendices A, B, and C**.

**PARS** 

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

Analytical results indicate a ubiquitous lead concern with the water supply front hall of the building. All other areas of the building showed lead in drinking water results below the action level. Based on this information, PARS recommends the following:

- All drinking water fountains be removed from service immediately.
- An alternative drinking water source should be provided to the building occupants in this area
- Staff and students should be informed that hand sinks in this area are to be utilized for hand washing only. All sinks should also be flushed for a minimum of 30 seconds prior to use.
- A permanent remedy (replacement, filtration, etc.) should be implemented for the water sources located
- PARS recommends periodic flushing of the school taps and testing per state and federal regulations.

-000-

PARS appreciates the opportunity to assist West Windsor-Plainsboro Regional School District with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

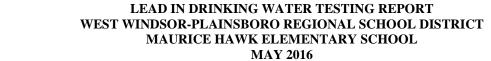
Respectfully submitted,

PARS ENVIRONMENTAL, INC.

Chinte Cala

Christa M. Casciolini Project Geologist Margaret Halasnik Principal Industrial Hygienist

Vargaret Halasul



**PARS** 



### TABLE 1 DRINKING WATER RESULTS TABLE – 3/29/16

#### TABLE 1

### LEAD IN DRINKING WATER TESTING REPORT - 3/29/16 WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT MAURICE HAWK ELEMENTARY SCHOOL

<b>Accutest N</b>	lew -	Jersey								Apr 15,	2016 14:26 pm		
Job Number:	JC17161												
Account:	PARS Environmental Services												
Project:	WWP Regional-MHE, West Windsor-Plainsboro, NJ												
Project Number:	mber:												
										Legend:	Hit		
	Exceedance												
Client Sample ID:		MHE-01-H1-WC-P	MHE-01-KIT-KC-P	MHE-01-H2-WC-P	MHE-01-142-DW-P	MHE-01-161-DW-P	MHE-01-NUR-NS-P	MHE-01-221-DW-P	MHE-01-7-DW-P	MHE-01-FR-LC-P	MHE-01-165-DW-P		
Lab Sample ID:		JC17161-1	JC17161-2	JC17161-3	JC17161-4	JC17161-5	JC17161-6	JC17161-7	JC17161-8	JC17161-9	JC17161-10		
Date Sampled:		3/29/2016	3/29/2016	3/29/2016	3/29/2016	3/29/2016	3/29/2016	3/29/2016	3/29/2016	3/29/2016	3/29/2016		
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water		
Metals Analysis													
Lead	mg/l	<0.00050 <sup>a</sup>	0.0025 <sup>a</sup>	<0.00050 <sup>a</sup>	0.0038 <sup>a</sup>	0.0051 <sup>a</sup>	<0.00050 <sup>a</sup>	0.00074 <sup>a</sup>	<0.00050 <sup>a</sup>	0.0048 <sup>a</sup>	0.016 <sup>a</sup>		
Footnotes:													
<sup>a</sup> Analysis performed a	t Accute	st Laboratories, Whea	t Ridge, CO.										

Client Sample ID Format: School-Floor-Room-Outlet-Sample Type

Floor: Room: Outlet: Sample Type:

01 = First floor ### = Room number ### BF = Bathroom faucet P = Primary (first draw) sample

02 = Second floor ###-### = Sample between room number ## CF = Classroom faucet F = Flush sample

H### = Hallway by room number ### DW= Drinking water bubbler

BL = Boy's locker room  $EC = Home \ economics \ room, \ cold$  CAF = Cafeteria  $KC = Kitchen \ faucet, \ cold$   $FR = Faculty \ room$   $LC = Lounge \ faucet, \ cold$   $GL = Girl's \ locker \ room$   $NS = Nurse's \ office \ sink$ 

KIT = Kitchen WC = Water cooler (chiller unit)

TGL = Team girl's locker room

TL = Teacher's lounge TP = Teacher's prep room PLR = Pool Locker room

NUR = Nurse's office SGYM = Small gym



### 

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT MAURICE HAWK ELEMENTARY SCHOOL MAY 2016

# TABLE 2 DRINKING WATER RESULTS TABLE – 4/19/16

#### TABLE 2

### LEAD IN DRINKING WATER TESTING REPORT - 4/19/16 WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT MAURICE HAWK ELEMENTARY SCHOOL

<b>SGS Accutest New</b>	Jersey		5/10/2016 10:57					
Job Number:	JC18607							
Account:		PARS Environmental Services						
Project:	WWP Schools-Ma	WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ						
Project Number:	565-84	565-84						
		Legend:	Hit					
			Exceedance					
		•						
Client Sample ID:		MHE-01-0165-DW- P	MHE-01-0165-DW- F					
Lab Sample ID:		JC18607-1	JC18607-2					
Date Sampled:		4/19/2016	4/19/2016					
Matrix:		Drinking Water	Drinking Water					
Metals Analysis								
Lead	mg/l	0.21	0.038					
	·	·	· ·					

Client Sample ID Format: School-Floor-Room-Outlet-Sample Type

Floor:

**Room:**01 = First floor ### = Room number ###

02 = Second floor ###-### = Sample between room number ### and room ###

H### = Hallway by room number ###

BL = Boy's locker room

CAF = Cafeteria FR = Faculty room

TR = Tacanty Toolii

GL = Girl's locker room

KIT = Kitchen

MGYM = Main gym

MO = Main office

NUR = Nurse's office

SGYM = Small gym

TGL = Team girl's locker room

TL = Teacher's lounge

TP = Teacher's prep room

PLR = Pool Locker room

Outlet: Sample Type:

BF = Bathroom faucet P = Primary (first draw) sample

CF = Classroom faucet F = Flush sample

DW= Drinking water bubbler

EC = Home economics room, cold

KC = Kitchen faucet, cold

LC = Lounge faucet, cold

NS = Nurse's office sink

WC = Water cooler (chiller unit)

TF or TS = Teacher's faucet or Teacher's sink



### 

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT MAURICE HAWK ELEMENTARY SCHOOL MAY 2016

### TABLE 3 DRINKING WATER RESULTS TABLE – 4/30/16

#### TABLE 3

### LEAD IN DRINKING WATER TESTING REPORT - 4/30/16 WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT

MALIBICE	HV/V/K	FLEMENTARY SCHOOL

SGS Accutest New Jersey											5/10/2016 10:5	
Job Number:	JC19	412										
Account:	PARS	Environmental Servic	es									
Project:	WWP	WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ										
Project Number:	: 565-8	565-84										
										Legend:	Hit	
											Exceedance	
Client Sample I	ID.	MHE-01-163-DW-B	MHE-01-164-DW-P	MHE-01-165-DW-P	MHE-01-165-CF-P	MHE-01-166-DW-P	MHE-01-167-CF-P	MHE-01-168-DW-P	MHE-01-01-DW-P	MHE-01-169-DW-P	MHE-01-202-DW-P	
Lab Sample ID		JC19412-1	JC19412-2	JC19412-3	JC19412-4	JC19412-5	JC19412-6	JC19412-7	JC19412-8	JC19412-9	JC19412-10	
Date Sampled		4/30/2016	4/30/2016	4/30/2016	4/30/2016	4/30/2016	4/30/2016	4/30/2016	4/30/2016	4/30/2016	4/30/2016	
Matrix:	ч.	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	
Metals Analysis												
Metals Analysis												
Metals Analysis Lead	mg/l	0.0069	0.017	0.32	0.18	0.074	0.54	0.0066	0.0025	0.0069	0.001	
Lead	mg/l					0.074	0.54	0.0066	0.0025	0.0069	0.001	
Lead  Client Sample I	mg/l	MHE-01-216-DW-P	MHE-01-160-DW-P	MHE-01-170-DW-B	MHE-01-162-DW-P	0.074	0.54	0.0066	0.0025	0.0069	0.001	
Lead	mg/l					0.074	0.54	0.0066	0.0025	0.0069	0.001	
Lead  Client Sample I	mg/l	MHE-01-216-DW-P	MHE-01-160-DW-P	MHE-01-170-DW-B	MHE-01-162-DW-P	0.074	0.54	0.0066	0.0025	0.0069	0.001	
Lead  Client Sample I  Lab Sample IE	mg/l	MHE-01-216-DW-P JC19412-11	MHE-01-160-DW-P JC19412-12	MHE-01-170-DW-B JC19412-13	MHE-01-162-DW-P JC19412-14	0.074	0.54	0.0066	0.0025	0.0069	0.001	
Client Sample I Lab Sample ID Date Sampled	mg/l	MHE-01-216-DW-P JC19412-11 4/30/2016	MHE-01-160-DW-P JC19412-12 4/30/2016	MHE-01-170-DW-B JC19412-13 4/30/2016	MHE-01-162-DW-P JC19412-14 4/30/2016	0.074	0.54	0.0066	0.0025	0.0069	0.001	
Client Sample I Lab Sample ID Date Sampled	mg/l	MHE-01-216-DW-P JC19412-11 4/30/2016	MHE-01-160-DW-P JC19412-12 4/30/2016	MHE-01-170-DW-B JC19412-13 4/30/2016	MHE-01-162-DW-P JC19412-14 4/30/2016	0.074	0.54	0.0066	0.0025	0.0069	0.001	
Client Sample I Lab Sample ID Date Sampled Matrix:	mg/l	MHE-01-216-DW-P JC19412-11 4/30/2016	MHE-01-160-DW-P JC19412-12 4/30/2016	MHE-01-170-DW-B JC19412-13 4/30/2016	MHE-01-162-DW-P JC19412-14 4/30/2016	0.074	0.54	0.0066	0.0025	0.0069	0.001	

Client Sample ID Format: School-Floor-Room-Outlet-Sample Type

Floor: Room: Outlet: Sample Type:

01 = First floor### = Room number ###BF = Bathroom faucetP = Primary (first draw) sample02 = Second floor###-### = Sample between room number ##CF = Classroom faucetF = Flush sample

H### = Hallway by room number ### DW= Drinking water bubbler

NUR = Nurse's office SGYM = Small gym

TGL = Team girl's locker room TL = Teacher's lounge TP = Teacher's prep room PLR = Pool Locker room

BL = Boy's locker room EC = Home economics room, cold CAF = Cafeteria KC = Kitchen faucet, cold

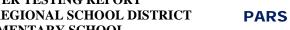
 $FR = Faculty room \\ GL = Girl's locker room \\ NS = Nurse's office sink$ 

KIT = Kitchen WC = Water cooler (chiller unit)

MO = Main office

MGYM = Main gym

TF or TS = Teacher's faucet or Teacher's sink





### **APPENDIX A** LABORATORY ANALYTICAL REPORT - 3/29/16



### **ACCUTEST New Jersey**

04/13/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0 **Automated Report** 

#### Technical Report for

#### **PARS** Environmental Services

WWP Regional-MHE, West Windsor-Plainsboro, NJ

SGS Accutest Job Number: JC17161

Sampling Date: 03/29/16

#### Report to:

PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 ccasciolini@ParsEnviro.com

ATTN: Christa Casciolini

Total number of pages in report: 42

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole Laboratory Director

Maney +. Cole

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest. Test results relate only to samples analyzed.

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#### **Sample Summary**

Job No:

JC17161

PARS Environmental Services

WWP Regional-MHE, West Windsor-Plainsboro, NJ

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
JC17161-1	03/29/16	06:52 MK	03/29/16	DW	Drinking Water	MHE-01-H1-WC-P
JC17161-2	03/29/16	06:58 MK	03/29/16	DW	Drinking Water	MHE-01-KIT-KC-P
JC17161-3	03/29/16	07:02 MK	03/29/16	DW	Drinking Water	MHE-01-H2-WC-P
JC17161-4	03/29/16	07:14 MK	03/29/16	DW	Drinking Water	MHE-01-142-DW-P
JC17161-5	03/29/16	07:24 MK	03/29/16	DW	Drinking Water	MHE-01-161-DW-P
JC17161-6	03/29/16	06:55 CC	03/29/16	DW	Drinking Water	MHE-01-NUR-NS-P
JC17161-7	03/29/16	07:07 CC	03/29/16	DW	Drinking Water	MHE-01-221-DW-P
JC17161-8	03/29/16	07:10 CC	03/29/16	DW	Drinking Water	MHE-01-7-DW-P
JC17161-9	03/29/16	07:25 CC	03/29/16	DW	Drinking Water	MHE-01-FR-LC-P
JC17161-10	03/29/16	07:28 CC	03/29/16	DW	Drinking Water	MHE-01-165-DW-P

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No JC17161

Site: WWP Regional-MHE, West Windsor-Plainsboro, NJ Report Date 4/13/2016 11:23:58 A

On 03/29/2016, 10 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 5 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC17161 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

#### Metals By Method EPA 200.8

Matrix: DW Batch ID: D:MP18436

- The data for EPA 200.8 meets quality control requirements.
- JC17161-10 for Lead: Analysis performed at Accutest Laboratories, Wheat Ridge, CO.
- JC17161-9 for Lead: Analysis performed at Accutest Laboratories, Wheat Ridge, CO.
- JC17161-8 for Lead: Analysis performed at Accutest Laboratories, Wheat Ridge, CO.
- JC17161-7 for Lead: Analysis performed at Accutest Laboratories, Wheat Ridge, CO.
- JC17161-6 for Lead: Analysis performed at Accutest Laboratories, Wheat Ridge, CO.
- JC17161-5 for Lead: Analysis performed at Accutest Laboratories, Wheat Ridge, CO.
- JC17161-4 for Lead: Analysis performed at Accutest Laboratories, Wheat Ridge, CO.
- JC17161-3 for Lead: Analysis performed at Accutest Laboratories, Wheat Ridge, CO.
- JC17161-2 for Lead: Analysis performed at Accutest Laboratories, Wheat Ridge, CO.
- JC17161-1 for Lead: Analysis performed at Accutest Laboratories, Wheat Ridge, CO.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Wednesday, April 13, 2016

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Accutest New Jersey Job No JC17161

Site: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ Report Date 4/13/2016 8:12:59 AM

On 03/29/2016, 10 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.3 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of JC17161 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

#### Metals By Method EPA 200.8

Matrix: DW Batch ID: MP18436

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC17161-1MS, JC17161-1MSD were used as the QC samples for the metals analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

SGS



**Summary of Hits Job Number:** JC17161

Account: PARS Environmental Services

**Project:** WWP Regional-MHE, West Windsor-Plainsboro, NJ

Collected: 03/29/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC17161-1	MHE-01-H1-WC-	P				
No hits reported	in this sample.					
JC17161-2	MHE-01-KIT-KC	<b>'-P</b>				
Lead <sup>a</sup>		0.0025	0.00050		mg/l	EPA 200.8
JC17161-3	MHE-01-H2-WC-	P				
No hits reported	in this sample.					
JC17161-4	MHE-01-142-DW	-P				
Lead a		0.0038	0.00050		mg/l	EPA 200.8
JC17161-5	MHE-01-161-DW	-P				
Lead <sup>a</sup>		0.0051	0.00050		mg/l	EPA 200.8
JC17161-6	MHE-01-NUR-NS	S-P				
No hits reported	in this sample.					
JC17161-7	MHE-01-221-DW	-P				
Lead <sup>a</sup>		0.00074	0.00050		mg/l	EPA 200.8
JC17161-8	MHE-01-7-DW-P					
No hits reported	in this sample.					
JC17161-9	MHE-01-FR-LC-I	P				
Lead <sup>a</sup>		0.0048	0.00050		mg/l	EPA 200.8
JC17161-10	MHE-01-165-DW	-P				
Lead <sup>a</sup>		0.016	0.00050		mg/l	EPA 200.8
(a) Analysis perf	ormed at Accutest L	aboratories, Whe	eat Ridge, C	CO.		



### Section 4

Sample Results		
Report of Analysis		
Report of Allarysis		

#### **Report of Analysis**

Client Sample ID: MHE-01-H1-WC-P

Lab Sample ID:JC17161-1Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/29/16Percent Solids:n/a

Project: WWP Regional-MHE, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead <sup>a</sup>	< 0.00050	0.015	0.0005	0 mg/1	1	04/12/16	04/12/16 AMS	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: D:MA7199(2) Prep QC Batch: D:MP18436

(a) Analysis performed at Accutest Laboratories, Wheat Ridge, CO.

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: MHE-01-KIT-KC-P

Lab Sample ID:JC17161-2Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/29/16Percent Solids:n/a

Project: WWP Regional-MHE, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead <sup>a</sup>	0.0025	0.015	0.0005	0 mg/l	1	04/12/16	04/12/16 AMS	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: D:MA7199(2) Prep QC Batch: D:MP18436

(a) Analysis performed at Accutest Laboratories, Wheat Ridge, CO.

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: MHE-01-H2-WC-P

Lab Sample ID:JC17161-3Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/29/16Percent Solids:n/a

Project: WWP Regional-MHE, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead a	< 0.00050	0.015	0.0005	60 mg/1	1	04/12/16	04/12/16 AMS	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: D:MA7199(2) Prep QC Batch: D:MP18436

(a) Analysis performed at Accutest Laboratories, Wheat Ridge, CO.

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: MHE-01-142-DW-P

Lab Sample ID:JC17161-4Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/29/16Percent Solids:n/a

Project: WWP Regional-MHE, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead a	0.0038	0.015	0.00050	0 mg/l	1	04/12/16	04/12/16 AMS	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: D:MA7199(2) Prep QC Batch: D:MP18436

(a) Analysis performed at Accutest Laboratories, Wheat Ridge, CO.

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



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#### **Report of Analysis**

Client Sample ID: MHE-01-161-DW-P

Lab Sample ID:JC17161-5Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/29/16Percent Solids:n/a

Project: WWP Regional-MHE, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead <sup>a</sup>	0.0051	0.015	0.0005	0 mg/l	1	04/12/16	04/12/16 AMS	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: D:MA7199(2) Prep QC Batch: D:MP18436

(a) Analysis performed at Accutest Laboratories, Wheat Ridge, CO.

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: MHE-01-NUR-NS-P

Lab Sample ID:JC17161-6Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/29/16Percent Solids:n/a

Project: WWP Regional-MHE, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead <sup>a</sup>	< 0.00050	0.015	0.0005	0 mg/1	1	04/12/16	04/12/16 AMS	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: D:MA7199(2) Prep QC Batch: D:MP18436

(a) Analysis performed at Accutest Laboratories, Wheat Ridge, CO.

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: MHE-01-221-DW-P

Lab Sample ID:JC17161-7Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/29/16Percent Solids:n/a

Project: WWP Regional-MHE, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead <sup>a</sup>	0.00074	0.015	0.0005	0 mg/l	1	04/12/16	04/12/16 AMS	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: D:MA7199(2) Prep QC Batch: D:MP18436

(a) Analysis performed at Accutest Laboratories, Wheat Ridge, CO.

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



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#### **Report of Analysis**

Client Sample ID: MHE-01-7-DW-P

Lab Sample ID:JC17161-8Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/29/16Percent Solids:n/a

Project: WWP Regional-MHE, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead <sup>a</sup>	< 0.00050	0.015	0.0005	0 mg/l	1	04/12/16	04/12/16 AMS	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: D:MA7199(2) Prep QC Batch: D:MP18436

(a) Analysis performed at Accutest Laboratories, Wheat Ridge, CO.

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: MHE-01-FR-LC-P

Lab Sample ID:JC17161-9Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/29/16Percent Solids:n/a

Project: WWP Regional-MHE, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead <sup>a</sup>	0.0048	0.015	0.0005	0 mg/l	1	04/12/16	04/12/16 AMS	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: D:MA7199(2) Prep QC Batch: D:MP18436

(a) Analysis performed at Accutest Laboratories, Wheat Ridge, CO.

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: MHE-01-165-DW-P

Lab Sample ID:JC17161-10Date Sampled:03/29/16Matrix:DW - Drinking WaterDate Received:03/29/16Percent Solids:n/a

Project: WWP Regional-MHE, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead <sup>a</sup>	0.016	0.015	0.00050	0 mg/1	1	04/12/16	04/12/16 AMS	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: D:MA7199(2) Prep QC Batch: D:MP18436

(a) Analysis performed at Accutest Laboratories, Wheat Ridge, CO.

RL = Reporting Limit





#### **Section 5**

Misc. Forms

**Custody Documents and Other Forms** 

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

*** **********************************								
	UTEST &	CHAIN OF  SGS Accute 2235 Route 130, D  TEL. 732-329-0200 FA	est - Dayton Dayton, NJ 08810 X: 732-329-3499/3		FED-EX Trac		Bottle Order Control #	
Client / Reporting Information		Project Information	AND ASSESSMENT OF THE PARTY OF					e 17161
Company Name PARS Environmental Street Address  Street Address  State Address  State Dr. Suite St  Abblins VIII. NJ 08691  Project Contact  Christa Casciplini Scasciplini	Project Name:  WWPRe  Street				R	equested Analysis ( s	ee TEST CODE sheet)	Matrix Codes  DW - Drinking Water GW - Ground Water
City State Robbinsville, NJ 08691 Project Contact	City Project #	Billing Information State Company National Company Nation	mation ( if different f me	rom Report to)	0w Pb			WW - Water SW - Surface Water SO - Soil SL- Studge SED-Sediment
Phone #	Client Purchase Order #	n City		tale Zi	ادا			OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid
609-890-7277 Sampler(s) Name(s) Phone #	Project Manager	Attention:			9,00			WP - Wipe FB-Field Blank EB-Equipment Blank
SGS Accesses Samples Field ID / Point of Collection		Collection		Number of preserved Bo	les W			RB- Rinse Blank TB-Trip Blank
1 MHE-01- HI- WC-P		Fime by Mel	Irix #of bottles 로 물	HNO3 H2SO4 NONE DI Wali	ON X			LAB USE ONLY
3 MHE-01- HZ-WC-P	3/29/16	6158 MK	1	l l	l k			K31
4 MHE-01-142-DW-P	3/29/16	7:14 MK	1		X   X   X   X   X   X   X   X   X   X			
4 MHE-01-NUR-NS-P 7 MHE-01-221-DW-P		6155 cc		1	<u>}</u>   <u>X</u>			
4 MHE-01-7-DW-P		7:10 CC		1	X			
9 MHE-01-FR-LC-P 10 MHE-01-165-DW-K	3/29/16	7:28 CC	+++	į l	X	INITIAL ASI	ESSMENT BOX	
			11			LABEL VEF	RIFIGATION	
Turnaround Time ( Business days)			Data Delivera	able Information			mmasta (Caralalla)	
☐ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day RUSH	Approved By (SGS Accutest PM): / Date	Comme	ercial "A" (Level 1) ercial "B" (Level 2) 1 (Level 3+4)	NYASP NYASP State F	Category B orms	00	mments / Special Instruction	5
□ 2 Day RUSH □ 1 Day RUSH ☑ other 2 Week		Comme	uced ercial "C" eta of Known Quality = Results Only, Comm					
Emergency & Rush T/A data available VIA Lablink		N.I Reduced = P	Populte + OC Summer	and the second	·	Sample inventory is	verified upon receipt in t	the Laboratan
Relinquished by Sampler: Date Time: 3/29/	Sample Custody m	L 3-29-16	Relingu	hange possession	including courier of	Jelivery.  Date Time. 7/5	Received By:	THE CAUDITATION TO THE CAUDITATI
Relinquished by Sampler: Date Time: 3	Received By:		Relinquis	hed By:		Date Time:	Received By:	-0 /
Relinquished by: Date Time:	Received By: 5	-	Custody S	Seal #	Intact P	reserved where applicable	4 On ice	Cooler Temp.

☐ Intact
☐ Not intact

JC17161: Chain of Custody Page 1 of 2

#### 5.1

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Job Number: JC17	'161 Client:		Project:				
Date / Time Received: 3/29/	2016 5:15:00 PM	Delivery Method:	Airbill #'s:				
Cooler Temps (Raw Measured Cooler Temps (Corrected	,						
Cooler Security  1. Custody Seals Present: 2. Custody Seals Intact:  Cooler Temperature	or N		Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:	Y or N  ✓ □  ✓ □  ✓ □			
1. Temp criteria achieved: 2. Cooler temp verification: 3. Cooler media: 4. No. Coolers:	IR Gun Ice (Bag)	· ·	Sample Integrity - Condition  1. Sample recvd within HT:  2. All containers accounted for:  3. Condition of sample:	Y or N  O  Intact			
1. Trip Blank present / cooler: 2. Trip Blank listed on COC: 3. Samples preserved properly:	Y or N N/A	Δ	Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis:	Y or N N/A			
4. VOCs headspace free:			4. Compositing instructions clear: 5. Filtering instructions clear:				
Comments							

**SGS Accutest Sample Receipt Summary** 

JC17161: Chain of Custody

Page 2 of 2

## **Internal Sample Tracking Chronicle**

PARS Environmental Services

**Job No:** JC17161

WWP Regional-MHE, West Windsor-Plainsboro, NJ

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
JC17161-1 MHE-01-H	Collected: 29-MAR-16 1-WC-P	06:52 By: MK	Receiv	ved: 29-MAR	-16 By	r: AL
JC17161-1	EPA 200.8	12-APR-16 13:39	AMS	12-APR-16	AMS	PBMS
JC17161-2 MHE-01-K	Collected: 29-MAR-16 IT-KC-P	06:58 By: MK	Receiv	ved: 29-MAR	-16 By	r: AL
JC17161-2	EPA 200.8	12-APR-16 13:48	AMS	12-APR-16	AMS	PBMS
JC17161-3 MHE-01-H	Collected: 29-MAR-16 2-WC-P	07:02 By: MK	Receiv	ved: 29-MAR	-16 By	r: AL
JC17161-3	EPA 200.8	12-APR-16 13:51	AMS	12-APR-16	AMS	PBMS
JC17161-4 MHE-01-14	Collected: 29-MAR-16 2-DW-P	07:14 By: MK	Receiv	ved: 29-MAR	-16 By	r: AL
JC17161-4	EPA 200.8	12-APR-16 13:54	AMS	12-APR-16	AMS	PBMS
JC17161-5 MHE-01-16	Collected: 29-MAR-16 51-DW-P	07:24 By: MK	Receiv	ved: 29-MAR	-16 By	r: AL
JC17161-5	EPA 200.8	12-APR-16 13:58	AMS	12-APR-16	AMS	PBMS
JC17161-6 MHE-01-N	Collected: 29-MAR-16 UR-NS-P	06:55 By: CC	Receiv	ved: 29-MAR	-16 By	r: AL
JC17161-6	EPA 200.8	12-APR-16 14:01	AMS	12-APR-16	AMS	PBMS
JC17161-7 MHE-01-22	Collected: 29-MAR-16 21-DW-P	07:07 By: CC	Receiv	ved: 29-MAR	-16 By	r: AL
JC17161-7	EPA 200.8	12-APR-16 14:10	AMS	12-APR-16	AMS	PBMS
JC17161-8 MHE-01-7-	Collected: 29-MAR-16 DW-P	07:10 By: CC	Receiv	ved: 29-MAR	-16 By	r: AL
JC17161-8	EPA 200.8	12-APR-16 14:13	AMS	12-APR-16	AMS	PBMS

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## **Internal Sample Tracking Chronicle**

PARS Environmental Services

**Job No:** JC17161

WWP Regional-MHE, West Windsor-Plainsboro, NJ

Sample Number	Method	Analyzed	Ву	Prepped	Ву	<b>Test Codes</b>
JC17161-9 MHE-01-FI	Collected: 29-MAR-16 R-LC-P	07:25 By: CC	Receiv	ved: 29-MAF	R-16 B	y: AL
JC17161-9	EPA 200.8	12-APR-16 14:16	AMS	12-APR-16	AMS	PBMS
JC17161-10 MHE-01-16	Collected: 29-MAR-16 55-DW-P	07:28 By: CC	Receiv	ved: 29-MAR	R-16 B	y: AL
JC17161-10	EPA 200.8	12-APR-16 14:19	AMS	12-APR-16	AMS	PBMS

## **SGS Accutest Internal Chain of Custody**

Job Number: JC17161

**Account:** PARS PARS Environmental Services

**Project:** WWP Regional-MHE, West Windsor-Plainsboro, NJ

Received: 03/29/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC17161-1.1	Secured Storage	Bernadette Vassilatos	03/30/16 09:12	Retrieve from Storage
JC17161-1.1	Bernadette Vassilatos		03/30/16 09:12	Subcontract
JC17161-2.1	Secured Storage	Bernadette Vassilatos	03/30/16 09:12	Retrieve from Storage
JC17161-2.1	Bernadette Vassilatos		03/30/16 09:12	Subcontract
JC17161-3.1	Secured Storage	Bernadette Vassilatos	03/30/16 09:12	Retrieve from Storage
JC17161-3.1	Bernadette Vassilatos		03/30/16 09:12	Subcontract
JC17161-4.1	Secured Storage	Bernadette Vassilatos	03/30/16 09:12	Retrieve from Storage
JC17161-4.1	Bernadette Vassilatos		03/30/16 09:12	Subcontract
JC17161-5.1	Secured Storage	Bernadette Vassilatos	03/30/16 09:12	Retrieve from Storage
JC17161-5.1	Bernadette Vassilatos		03/30/16 09:12	Subcontract
JC17161-6.1	Secured Storage	Bernadette Vassilatos	03/30/16 09:12	Retrieve from Storage
JC17161-6.1	Bernadette Vassilatos		03/30/16 09:12	Subcontract
JC17161-7.1	Secured Storage	Bernadette Vassilatos	03/30/16 09:12	Retrieve from Storage
JC17161-7.1	Bernadette Vassilatos		03/30/16 09:12	Subcontract
JC17161-8.1	Secured Storage	Bernadette Vassilatos	03/30/16 09:12	Retrieve from Storage
JC17161-8.1	Bernadette Vassilatos		03/30/16 09:12	Subcontract
JC17161-9.1	Secured Storage	Bernadette Vassilatos	03/30/16 09:12	Retrieve from Storage
JC17161-9.1	Bernadette Vassilatos		03/30/16 09:12	Subcontract
JC17161-10.1	Secured Storage	Bernadette Vassilatos	03/30/16 09:12	Retrieve from Storage
JC17161-10.1	Bernadette Vassilatos		03/30/16 09:12	Subcontract



Section 6

	_
1/1100	Forms
IVIISU	1 'OI 1118

Custody Documents and Other Forms

(Accutest Mountain States)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

#### CHAIN OF CUSTODY

Page	1	of	1	
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	51-57	CUTEST				_								FED-EX	Tracking #	,				Bottle Or	der Contr	ol#			
		CUICOI		2235 R TEL. 732-32	7-0200 I	FAX: 73	NJ 08810 2-329-349							SGS Accutest Quote #					SGS Accurtest Job JC17161						
	Client / Reporting Information			Project i		sgs.com									Pom	unatad	ted Analysis ( see TES1				T CODE sheet)			Matrix Codes	
Compan		Project Name:		Projecti	ntorma	0011							-		Regu	Jesteu	Milalya	15 ( 36	LOI	CODE	Siles	, 		寸	WIGHTA CODES
	Accutest		WWP Regional-MHE, West Windsor-Plainsboro, NJ				J																DW - Drinking Water GW - Ground Water WW - Water		
Street A	ddress 5 Route 130	Street							_					t							ļ		ŀ		SW - Surface Water
City	State Z	ip City		State	Billing Ir Company	nformatio Name	n ( if differ	ent fro	m Re	port t	٥)			1											SO + Soil SL- Siudge
Day		.												ļ											SED-Sediment OI - Oil
Project (	Contact E-mail	Project #			Street Ad	ldress								1					İ			1			LIQ - Other Liquid
mich	-																		1			1			AIR • Air SOL - Other Solid
Phone #		ax# Client Purchase	Order#		City			St	tate			Zip		İ	ļ	1									WP - Wipe FB-Field Blank
	329-0200	Phone Project Manager			Attention									-										- 1	EB-Equipment Blank
Sample: MK	(s) Name(s)	-none : Project Manager		à	Augunon																				RB- Rinse Blank TB-Trip Blank
				Collection				H	Numb	er of pa	eserve	d Bottle	38	1 .				İ						-	
Accutest					Sampled			E E	HNO3	H2304	NONE DI Water	MEOH	ENCORE	PBMS											
Sample 6	Field ID / Point of Collection	MEOH/DI Vial#	Date	Time	by	Matrix	# of bottles	T 2	至	꾸	2 2	W.	ă						<u> </u>		ļ		$\vdash$	$\dashv$	LAB USE ONLY
1	MHE-01-H1-WC-P		3/29/16	6:52:00 AM	MK	DW		Н	+	Н	+	+1	-	X			ļ	ļ. —	<u> </u>	-	-	<u> </u>			
2	MHE-01-KIT-KC-P		3/29/16	6:58:00 AM	MK	DW		Ш	1	Ш		Ш	$\perp$	Х			<u> </u>	ļ				ļ		_	
3	MHE-01-H2-WC-P		3/29/16	7:02:00 AM	MK	DW		Ш		Ц	1	Ш	4	X		ļ			<u> </u>			<u> </u>			
4	MHE-01-142-DW-P		3/29/16	7:14:00 AM	MK	DW		-	$\perp$	Ш	_	Ш	$\perp$	X		1		<u> </u>		<u> </u>	1	<u> </u>			***************************************
5	MHE-01-161-DW-P		3/29/16	7:24:00 AM	MK	DW				Ш			ļ	X			<u> </u>			<u> </u>		<u> </u>			
6	MHE-01-NUR-NS-P		3/29/16	6:55:00 AM	MK	DW				Ш	$\perp$			X	ļ				<u> </u>		<u> </u>			_	
7	MHE-01-221-DW-P		3/29/16	7:07:00 AM	MK	DW			_	Ш	1	Ш	_	X		-			ļ		_			$\dashv$	
8	MHE-01-7-DW-P		3/29/16	7:10:00 AM	MK	ĐW			1	Ш	1	Ш		X		1	<u> </u>					<u> </u>			
9	MHE-01-FR-LC-P		3/29/16	7:25:00 AM	MK	DW		Ц	_	Ш	4	Ш	1	X		ļ	<u> </u>			<u> </u>	-	<u> </u>			
10	MHE-01-165-DW-P		3/29/16	7:25:00 AM	MK	DW			1	Ш	1	4		X	<u> </u>	_	ļ		_	_	-		1	_	
			<u> </u>	ļ			<u> </u>		1	$\sqcup$	1		1	<u> </u>	ļ .	1	ļ	_	-	<del> </del>	1	-		$\dashv$	
							<u></u>			Ш		Ш		l	<u> </u>		<u> </u>		_	<u> </u>		<u>Ļ</u>			
	Turnaround Time ( Business days)							Delive		e Info						Τ			Con	nments /	Specia	u instru	ctions		
		Approved By (SGS	Accutest PM): / Date	E.			ciał "A" (L cial "B" ( L			L	_		Cate												
	Std. 10 Business Days 5 Day RUSH						(Level 3+			Ì		State I		,, .		1									
ł	3 Day EMERGENCY					NJ Redu				Ī			ormat			1									
1	2 Day EMERGENCY					Commen	cial "C"			[	X	Other	RED	Γ2		_									
ŀ	1 Day EMERGENCY						Commen									1									
	X other Due 4/12/2016						Commen NJ Redu	ial "B"	= Re	sults +	QC 8	Summa many -	ny + Partis	d Raw da	ta										
Em	argency & Rush T/A data available V/A Lablink		Sample Cust	tody must be d	ocumen	ted belo	w each ti	me sa	mple	s ch	inge	poss	ession	, includ	ing cou	irier del	ivery.			1					
Relig	Mishory Sampler:	3/3/1/6/17:00	Received By:	-ad Fx	, ·			Reline 2									Date Ti	me:		Receive	ed By:	ط	يس	ب	12000
		215016 1 7.00 Date Times	Received By:					1-	quisix	d By:				-			Date Ti	me:		Receive			T-		
3		Date Time:	Received By:					4 Custo	dy Se	al# -	21	7		Intact		Preser	red whore	applicab	س, دا	14	2.5	Onk		Cooler	Temp. 2 -3
5			5					<u> </u>			70	<u>_</u>		Not inte	:t		<u>P</u>			ಗಿರಿ	رير	<u>B</u> :			
											F	X													

JC17161: Chain of Custody Page 1 of 1 **Accutest Mountain States** 

6.2

## **Internal Sample Tracking Chronicle**

Accutest New Jersey

JC17161 Job No:

PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ Project No: PARS68313

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
JC17161-1 MHE-01-H	Collected: 29-MAR-16 1-WC-P	06:52 By: MK	Receiv	ved: 29-MAR	R-16 By	<i>γ</i> :
JC17161-1	EPA 200.8	12-APR-16 13:39	RM	12-APR-16	LH	PBMS
JC17161-2 MHE-01-K	Collected: 29-MAR-16 IT-KC-P	06:58 By: MK	Receiv	ved: 29-MAR	R-16 By	<i>y</i> :
JC17161-2	EPA 200.8	12-APR-16 13:48	RM	12-APR-16	LH	PBMS
JC17161-3 MHE-01-H	Collected: 29-MAR-16 2-WC-P	07:02 By: MK	Receiv	ved: 29-MAR	R-16 By	<i>y</i> :
JC17161-3	EPA 200.8	12-APR-16 13:51	RM	12-APR-16	LH	PBMS
JC17161-4 MHE-01-14	Collected: 29-MAR-16 42-DW-P	07:14 By: MK	Receiv	ved: 29-MAR	R-16 By	<i>y</i> :
JC17161-4	EPA 200.8	12-APR-16 13:54	RM	12-APR-16	LH	PBMS
JC17161-5 MHE-01-16	Collected: 29-MAR-16 51-DW-P	07:24 By: MK	Receiv	ved: 29-MAR	R-16 By	<i>y</i> :
JC17161-5	EPA 200.8	12-APR-16 13:58	RM	12-APR-16	LH	PBMS
JC17161-6 MHE-01-N	Collected: 29-MAR-16 UR-NS-P	06:55 By: MK	Receiv	ved: 29-MAR	R-16 By	/:
JC17161-6	EPA 200.8	12-APR-16 14:01	RM	12-APR-16	LH	PBMS
JC17161-7 MHE-01-22	Collected: 29-MAR-16 21-DW-P	07:07 By: MK	Receiv	ved: 29-MAR	R-16 By	<i>y</i> :
JC17161-7	EPA 200.8	12-APR-16 14:10	RM	12-APR-16	LH	PBMS
JC17161-8 MHE-01-7-	Collected: 29-MAR-16 DW-P	07:10 By: MK	Receiv	ved: 29-MAR	R-16 By	<i>y</i> :
JC17161-8	EPA 200.8	12-APR-16 14:13	RM	12-APR-16	LH	PBMS

## **Internal Sample Tracking Chronicle**

Accutest New Jersey

Job No: JC17161

PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ Project No: PARS68313

Sample Number	Method	Analyzed	Ву	Prepped	Ву	<b>Test Codes</b>
JC17161-9 MHE-01-FI	Collected: 29-MAR-16 R-LC-P	07:25 By: MK	Receiv	ed: 29-MAR	2-16 B <sub>2</sub>	y:
JC17161-9	EPA 200.8	12-APR-16 14:16	RM	12-APR-16	LH	PBMS
JC17161-10 MHE-01-16	Collected: 29-MAR-16 55-DW-P	07:25 By: MK	Receiv	ed: 29-MAR	R-16 B	y:
JC17161-10	EPA 200.8	12-APR-16 14:19	RM	12-APR-16	LH	PBMS



## **Section 7**

## Metals Analysis

## QC Data Summaries

(Accutest Mountain States)

### Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- · High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

# SGS Accutest Instrument Runlog Inorganics Analyses

Login Number: JC17161
Account: ALNJ - Accutest New Jersey
Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

Date Analyzed: 04/12/16 Methods: EPA 200.8

File ID: PA041216DW.REP

Anal	lyst: RM ameters: Pb	.KEP	Da	Run ID: MA7199
Time		Dilution Factor		Comments
11:21	MA7199-STD1	1		STDBLK
11:24	MA7199-STD2	1		STD1
11:27	MA7199-STD3	1		STD2
11:30	MA7199-STD4	1		STD3
11:33	MA7199-CRI1	1		
11:36	MA7199-ICV1	1		
11:39	MA7199-ICB1	1		
11:42	MA7199-CCV1	1		
11:45	MA7199-CCB1	1		
11:48	MP18363-MB1	1		
11:51	MP18363-B1	1		
11:54	D81147-1	2		(sample used for QC only; not part of login JC17161)
11:58	MP18363-S1	2		
12:01	MP18363-S2	2		
12:04	ZZZZZZ	2		
12:07	ZZZZZZ	2		
12:10	ZZZZZZ	2		
12:13	MA7199-CCV2	1		
12:16	MA7199-CCB2	1		
12:19	ZZZZZZ	2		
12:22	ZZZZZZ	2		
12:25	ZZZZZZ	2		
12:28	ZZZZZZ	2		
12:31	ZZZZZZ	2		
12:34	ZZZZZZ	2		
12:37	MP18364-MB1	1		
12:41	MP18364-B1	1		
12:44	D81148-1	2		(sample used for QC only; not part of login JC17161)
12:47	MP18364-S1	2		
12:50	MA7199-CCV3	1		
12:53	MA7199-CCB3	1		
12:56	MP18364-S2	2		
12:59	ZZZZZZ	2		



#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: JC17161 Account: ALNJ - Accutest New Jersey

Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

File ID: PA041216DW.REP Analyst: RM Parameters: Pb

Date Analyzed: 04/12/16 Run ID: MA7199

Methods: EPA 200.8

	Time	Sample Description	Dilution PS Factor Recov Comments
	13:02	ZZZZZZ	2
	13:05	ZZZZZZ	2
	13:09	ZZZZZZ	2
	13:12	ZZZZZZ	2
	13:15	ZZZZZZ	2
	13:18	ZZZZZZ	2
	13:21	ZZZZZZ	2
	13:24	ZZZZZZ	2
	13:27	MA7199-CCV4	1
	13:30	MA7199-CCB4	1
	13:33	MP18436-MB1	1
	13:36	MP18436-B1	1
	13:39	JC17161-1	1
	13:42	MP18436-S1	1
	13:45	MP18436-S2	1
	13:48	JC17161-2	1
	13:51	JC17161-3	1
	13:54	JC17161-4	1
	13:58	JC17161-5	1
	14:01	JC17161-6	1
	14:04	MA7199-CCV5	1
	14:07	MA7199-CCB5	1
	14:10	JC17161-7	1
	14:13	JC17161-8	1
	14:16	JC17161-9	1
>	Last r	JC17161-10 eportable sample MA7199-CCV6	1 Pyprep for job JC17161 1
>	Last r	MA7199-CCB6 eportable CCB fo to raw data for	1 or job JC17161 calibration curve and standards.

**ACCUTEST** 

#### INTERNAL STANDARD SUMMARY

## Login Number: JC17161 Account: ALNJ - Accutest New Jersey Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

File ID: PA041216DW.REP Analyst: RM Parameters: Pb

Date Analyzed: 04/12/16 Methods: EPA 200.8 Run ID: MA7199

Time	Sample Description	Istd#1	Istd#2
11:21	MA7199-STD1	447364 R	471477 R
11:24	MA7199-STD2	440737	459243
11:27	MA7199-STD3	447156	464711
11:30	MA7199-STD4	434641	446270
11:33	MA7199-CRI1	424832	445977
11:36	MA7199-ICV1	438641	457008
11:39	MA7199-ICB1	438645	465546
11:42	MA7199-CCV1	446470	469334
11:45	MA7199-CCB1	432122	463143
11:48	MP18363-MB1	406228	413408
11:51	MP18363-B1	397565	398529
11:54	D81147-1	413781	411017
11:58	MP18363-S1	422855	421939
12:01	MP18363-S2	431961	431411
12:04	ZZZZZZ	434806	430944
12:07	ZZZZZZ	430532	432225
12:10	ZZZZZZ	432080	435652
12:13	MA7199-CCV2	466195	482251
12:16	MA7199-CCB2	455913	478433
12:19	ZZZZZZ	444064	439561
12:22	ZZZZZZ	435105	433879
12:25	ZZZZZZ	439518	435788
12:28	ZZZZZZ	428493	434517
12:31	ZZZZZZ	436684	435891
12:34	ZZZZZZ	431116	444002
12:37	MP18364-MB1	415452	411213
12:41	MP18364-B1	394599	401512
12:44	D81148-1	416184	409549
12:47	MP18364-S1	425271	414969
12:50	MA7199-CCV3	453008	468601
12:53	MA7199-CCB3	445809	469457
12:56	MP18364-S2	426721	420252
12:59	ZZZZZZ	423817	412876

#### INTERNAL STANDARD SUMMARY

#### Login Number: JC17161 Account: ALNJ - Accutest New Jersey

Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

File ID: PA041216DW.REP Analyst: RM

Parameters: Pb

Run ID: MA7199

Date Analyzed: 04/12/16 Methods: EPA 200.8

Time	Sample Description	Istd#1	Istd#2
13:02	ZZZZZZ	423386	414540
13:05	ZZZZZZ	427529	415248
13:09	ZZZZZZ	425870	417395
13:12	ZZZZZZ	434541	417397
13:15	ZZZZZZ	423773	408150
13:18	ZZZZZZ	437809	414677
13:21	ZZZZZZ	433947	421628
13:24	ZZZZZZ	435554	417257
13:27	MA7199-CCV4	465409	481589
13:30	MA7199-CCB4	458671	474571
13:33	MP18436-MB1	414925	417443
13:36	MP18436-B1	395779	398861
13:39	JC17161-1	395937	380796
13:42	MP18436-S1	393955	385590
13:45	MP18436-S2	404923	390322
13:48	JC17161-2	381125	371544
13:51	JC17161-3	394234	388020
13:54	JC17161-4	393539	380700
13:58	JC17161-5	385895	375700
14:01	JC17161-6	389926	373253
14:04	MA7199-CCV5	433159	442273
14:07	MA7199-CCB5	435327	455334
14:10	JC17161-7	396874	386261
14:13	JC17161-8	389367	377210
14:16	JC17161-9	387321	377409
14:19	JC17161-10	382689	374895
14:22	MA7199-CCV6	432828	444293
14:25	MA7199-CCB6	436615	456807
R = Re	eference for IST	D limits.	! = Outside limits.

Limits

Istd# Parameter
Istd#1 Yttrium
Istd#2 Bismuth 60-125 % 60-125 %

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

## Login Number: JC17161

Account: ALNJ - Accutest New Jersey
Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

File ID: PA041216DW.REP Date Analyzed: 04/12/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7199 Units: ug/l

Time: Sample ID: Metal	RL	IDL	11:39 ICB1 raw	final	11:45 CCB1 raw	final	12:16 CCB2 raw	final	12:53 CCB3 raw	final
Copper	2.0	.06	anr							
Lead	0.50	.0079	0.060	<0.50	0.026	<0.50	0.023	<0.50	0.046	<0.50

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

## Login Number: JC17161

Account: ALNJ - Accutest New Jersey
Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

File ID: PA041216DW.REP Date Analyzed: 04/12/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7199 Units: ug/l

Time: Sample ID: Metal	RL	IDL	13:30 CCB4 raw	final	14:07 CCB5 raw	final	14:25 CCB6 raw	final
Copper	2.0	.06	anr					
Lead	0.50	.0079	0.032	<0.50	0.033	<0.50	0.033	<0.50

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: JC17161 Account: ALNJ - Accutest New Jersey

Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

File ID: PA041216DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/12/16 Run ID: MA7199

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	ICV True	11:36 ICV1 Results	% Rec	CCV True	11:42 CCV1 Results	% Rec	CCV True	12:13 CCV2 Results	% Rec
Copper	anr								
Lead	100	99.3	99.3	50	49.4	98.8	50	50.1	100.2

## CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: JC17161 Account: ALNJ - Accutest New Jersey

Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

File ID: PA041216DW.REP QC Limits: 90 to 110 % Recovery

Date Analyzed: 04/12/16 Run ID: MA7199 Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	CCV True	12:50 CCV3 Results	% Rec	CCV True	13:27 CCV4 Results	% Rec	CCV True	14:04 CCV5 Results	% Rec
Copper	anr								
Lead	50	50.9	101.8	50	50.7	101.4	50	51.3	102.6

(\*) Outside of QC limits
(anr) Analyte not requested

\_\_\_\_

## CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: JC17161 Account: ALNJ - Accutest New Jersey

Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

File ID: PA041216DW.REP Date Analyzed: 04/12/16 QC Limits: 90 to 110 % Recovery Run ID: MA7199

Methods: EPA 200.8 Units: ug/l

Time:		14:22	
Sample ID:	CCV	CCV6	
Metal	True	Results	% Rec

Copper anr
Lead 50 50.2 100.4

(\*) Outside of QC limits
(anr) Analyte not requested

\_\_\_\_

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC17161 Account: ALNJ - Accutest New Jersey

Date Analyzed: 04/12/16

Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

Methods: EPA 200.8

Units: ug/l

File ID: PA041216DW.REP QC Limits: 50 to 150 % Recovery

Time: Sample ID: CRI

						01/12/10	
ol o	Recovery		Rı	un	ID:	MA7199	
	CRIA True	11:33 CRI1 Results	% Red	С			

Metal	True	True	Results	% Rec
Copper	2.0	2.0	anr	
Lead	0.50	0.50	0.61	122.0

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

#### Login Number: JC17161

04/12/16

Account: ALNJ - Accutest New Jersey
Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

QC Batch ID: MP18436 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000031	<0.00050

Associated samples MP18436: JC17161-1, JC17161-2, JC17161-3, JC17161-4, JC17161-5, JC17161-6, JC17161-7, JC17161-8, JC17161-9, JC17161-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

\_\_\_\_

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC17161 Account: ALNJ - Accutest New Jersey

Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

QC Batch ID: MP18436 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

04/12/16 Prep Date:

Metal	JC17161-1 Original MS	Spikelot ICPALL2 % Rec	QC Limits
pper			
Lead	0.00048 0.19	0.20 94.8	70-130

Associated samples MP18436: JC17161-1, JC17161-2, JC17161-3, JC17161-4, JC17161-5, JC17161-6, JC17161-7, JC17161-8, JC17161-9, JC17161-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

**ACCUTEST** 

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC17161 Account: ALNJ - Accutest New Jersey

Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

QC Batch ID: MP18436 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/12/16

Metal	JC17161-1 Original MSD	Spikelot ICPALL2 % Rec	MSD RPD	QC Limit
Copper				
Lead	0.00048 0.19	0.20 94.8	0.0	20

Associated samples MP18436: JC17161-1, JC17161-2, JC17161-3, JC17161-4, JC17161-5, JC17161-6, JC17161-7, JC17161-8, JC17161-9, JC17161-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

**ACCUTEST** 

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC17161 Account: ALNJ - Accutest New Jersey

Project: PARS: WWP Regional-MHE, West Windsor-Plainsboro, NJ

QC Batch ID: MP18436 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

95.0 85-115

Prep Date: 04/12/16

0.19

Lead

Metal	BSP Result	Spikelot ICPALL2	QC Limits
Copper			

Associated samples MP18436: JC17161-1, JC17161-2, JC17161-3, JC17161-4, JC17161-5, JC17161-6, JC17161-7, JC17161-8, JC17161-9, JC17161-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

0.20

\_\_\_\_



# 

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT MAURICE HAWK ELEMENTARY SCHOOL MAY 2016

# APPENDIX B LABORATORY ANALYTICAL REPORT – 4/19/16



## ACCUTEST New Jersey

04/25/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

## Technical Report for

#### **PARS** Environmental Services

WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

565-84

SGS Accutest Job Number: JC18607

Sampling Date: 04/19/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 RTorres@ParsEnviro.com

ATTN: Rafael Torres

Total number of pages in report: 30

TNI FORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole Laboratory Director

Maney +. Cole

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest. Test results relate only to samples analyzed.

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## **Sample Summary**

PARS Environmental Services

Job No:

JC18607

WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ Project No: 565-84

Sample	Collected		Matr	ix	Client					
Number	Date	Time By	Received	Code	Type	Sample ID				
JC18607-1	04/19/16	06:31 MN	04/19/16	DW	Drinking Water	MHE-01-0165-DW-P				
JC18607-2	04/19/16	06:32 MN	04/19/16	DW	Drinking Water	MHE-01-0165-DW-F				

ACCUTEST

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No JC18607

Site: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Win Report Date 4/25/2016 5:11:10 PM

On 04/19/2016, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 5.6 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC18607 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

#### Metals By Method EPA 200.8

Matrix: DW Batch ID: MP93239

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC18578-1MS, JC18578-1MSD were used as the QC samples for metals.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

SGS ACC

## Page 1 of 1

**Summary of Hits Job Number:** JC18607

**Account:** PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

**Collected:** 04/19/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC18607-1	MHE-01-0165-DV	V-P				
Lead		0.21	0.00050		mg/l	EPA 200.8
JC18607-2	MHE-01-0165-DV	V-F				
Lead		0.038	0.00050		mg/l	EPA 200.8





## Section 4

Sample Results	
Report of Analysis	

#### Page 1 of 1

## **Report of Analysis**

Client Sample ID: MHE-01-0165-DW-P

Lab Sample ID:JC18607-1Date Sampled:04/19/16Matrix:DW - Drinking WaterDate Received:04/19/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.21	0.015	0.0005	0 mg/1	1	04/20/16	04/20/16 јо	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39225(2) Prep QC Batch: MP93239

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



Page 1 of 1

## **Report of Analysis**

Client Sample ID: MHE-01-0165-DW-F

Lab Sample ID:JC18607-2Date Sampled:04/19/16Matrix:DW - Drinking WaterDate Received:04/19/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.038	0.015	0.0005	0 mg/1	1	04/20/16	04/20/16 јо	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39225(2) Prep QC Batch: MP93239

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



8 of 30 ACCUTEST JC18607



## **Section 5**

Misc. Forms

**Custody Documents and Other Forms** 

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



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	LABORATO	RIES		2235 Route 130, Dayton, NJ 08810 TEL. 732-329-0200 FAX: 732-329-3499/3480					FED-EX Tracking # Bottle Order Control #																		
					TEL. 732-		FAX: 7		3499/	3480						Accute	st Quote #					Accu	lest Job #	-		<del>-</del> -	01.00
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Cit	500 Horizon Drive, Suite 54	0	303-305 CI	arksville Road		Billing	Informat	lon ( if di	fferer	at from	Ren	ort to	)												-		SW - Surface Water
City	State	Žip	City		State	Compa	ny Name	•						_											ı		SO - Soil SL- Sludge
Project	Robbinsville, NJ 08691	E-mail	West Project #	Windsor	NJ	00000														1						1	SED-Sediment OI - Oil
	fael L. Torres, III	C-man				Street A	Address														1			1			LIQ - Other Liquid
Phone		Fax#	Client Purchase	65-84 Order#		City				State				2ip	$\dashv$					1	ı			1			AIR - Air SOL - Other Solid
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Sample	er(s) Name(s)	Phone #	Project Manage	r		Attention	n:							_	-					1		1		1			FB-Field Blank EB-Equipment Blan
	Mike Nixon 60	9-414-2188	Rafael L	Torres, III											- 1			- 1		1		1	1				RB- Rinse Blank TB-Trip Blank
				-	Collection				T	Nun	nber o	prese	rved B	ottles		S				l	1	1		1			10-Thp Blank
Accutest Sample #	Field ID / Deies of Ochieve			1		Sampled				E	3 8	l <sub>y</sub>	Vater	F   R		PBM											
Sumper s	Field ID / Point of Collection		MEOH/DI Vial #	Date	Time	by	Metrix	# of bottle	오	NaOH	HZSO	NONE	DI W	EN B		ᇫ		1							1		LAB USE ONLY
1	MHE-01-0165-DW-P			4/19/16	0631	MN	DW	1	Τ	П	1	П		Т	$\Box$	1							†	+	+	+	AK
2	MHE-01-0165-DW-F			4/19/16	0632	MN	DW	1		Π.	1	Ħ	$\top$	$\top$	$\Box$	1		_		-	-	1	+	-	+	+-	/10
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1 0	1 Day EMERGENCY		Commercial "C"					- Par	l J		Other	_		-													
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JC18607: Chain of Custody

Page 1 of 2

IPL

## 5.1

#### CT

Job Number: JC18	607 Client:		Project:								
Date / Time Received: 4/19/2	2016 4:45:00 PM <b>Deliver</b>	ry Method:	Airbill #'s:								
Cooler Temps (Raw Measured Cooler Temps (Corrected											
Cooler Security  1. Custody Seals Present: 2. Custody Seals Intact:  Cooler Temperature	or N 3. COC Present: 4. Smpl Dates/Time O  Y or N	Y or N  V  CK  V  C	Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:	Y or N ✓ □ ✓ □ ✓ □							
Temp criteria achieved:     Cooler temp verification:     Cooler media:     No. Coolers:	IR Gun Ice (Bag)		Sample Integrity - Condition  1. Sample recvd within HT:  2. All containers accounted for:  3. Condition of sample:	Y or N  ✓ □  Intact							
Quality Control Preservation  1. Trip Blank present / cooler:  2. Trip Blank listed on COC:  3. Samples preserved properly:	<u>Y or N N/A</u> □ ☑ □ □ ☑ □		Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis:	Y or N N/A							
4. VOCs headspace free:			4. Compositing instructions clear: 5. Filtering instructions clear:								
Comments											

**SGS Accutest Sample Receipt Summary** 

JC18607: Chain of Custody

Page 2 of 2

## **Internal Sample Tracking Chronicle**

PARS Environmental Services

Job No:

JC18607

WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ Project No: 565-84

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
JC18607-1 MHE-01-01	Collected: 19-APR-16 165-DW-P	06:31 By: MN	Receiv	ed: 19-APR-	-16 By:	: AS
JC18607-1	EPA 200.8	20-APR-16 13:11	JO	20-APR-16	JO	PBMS
JC18607-2 MHE-01-01	Collected: 19-APR-16 65-DW-F	06:32 By: MN	Receiv	ed: 19-APR	-16 By:	: AS
JC18607-2	EPA 200.8	20-APR-16 13:14	JO	20-APR-16	JO	PBMS

Page 1 of 1

## **SGS Accutest Internal Chain of Custody**

**Job Number:** JC18607

**Account:** PARS PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

**Received:** 04/19/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC18607-1.1	Secured Storage	Sahara Feliciano	04/20/16 08:28	Retrieve from Storage
JC18607-1.1	Sahara Feliciano	Secured Staging Area	04/20/16 08:28	Return to Storage
JC18607-1.1	Secured Staging Area	Jaclyn O'Connor	04/20/16 09:01	Retrieve from Storage
JC18607-1.1	Jaclyn O'Connor	Secured Storage	04/20/16 14:40	Return to Storage
JC18607-1.1	Secured Storage	Christopher Hall	04/20/16 15:46	Retrieve from Storage
JC18607-1.1	Christopher Hall	Secured Staging Area	04/20/16 15:47	Return to Storage
JC18607-1.1	Secured Staging Area	Christopher Hall	04/20/16 15:47	Retrieve from Storage
JC18607-1.1	Shirley Grzybowski	Secured Storage	04/23/16 07:21	Return to Storage
Analyst unavailal	ble for custody transfer.	•		-
JC18607-2.1	Secured Storage	Sahara Feliciano	04/20/16 08:28	Retrieve from Storage
JC18607-2.1	Sahara Feliciano	Secured Staging Area	04/20/16 08:28	Return to Storage
JC18607-2.1	Secured Staging Area	Jaclyn O'Connor	04/20/16 09:01	Retrieve from Storage
JC18607-2.1	Jaclyn O'Connor	Secured Storage	04/20/16 14:40	Return to Storage
JC18607-2.1	Secured Storage	Christopher Hall	04/20/16 15:46	Retrieve from Storage
JC18607-2.1	Christopher Hall	Secured Staging Area	04/20/16 15:47	Return to Storage
JC18607-2.1	Secured Staging Area	Christopher Hall	04/20/16 15:47	Retrieve from Storage
JC18607-2.1	Shirley Grzybowski	Secured Storage	04/23/16 07:21	Return to Storage
Analyst unavailal	ble for custody transfer.	_		_



Section 6

# Metals Analysis

# QC Data Summaries

# Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

#### SGS Accutest Instrument Runlog Inorganics Analyses

Run ID: MA39225

# Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042016W1.CSV Analyst: JO Date Analyzed: 04/20/16 Methods: EPA 200.8

Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:13	MA39225-STD1	1		STDA
10:17	MA39225-STD2	1		STDA
10:20	MA39225-STD3	1		STDA
10:23	MA39225-STD4	1		STDB1
10:26	MA39225-STD5	1		STDB
10:30	MA39225-STD6	1		STDC
10:33	MA39225-STD7	1		STDD
10:36	MA39225-STD8	1		STDE
10:39	MA39225-STD9	1		STDF
10:43	MA39225-STD10	1		STDG
10:46	MA39225-STD11	1		STDH
10:49	MA39225-STD12	1		STDI
10:53	MA39225-STD13	1		STDJ
11:02	ZZZZZZ	1		
11:06	MA39225-ICVA1	1		
11:09	MA39225-ICV1	1		60ppb Al.
11:12	MA39225-ICB1	1		
11:16	MA39225-CRI1	1		
11:19	MA39225-CRIA1	1		0.3ppb Be, 1ppb As and Se
11:22	MA39225-CCVA1	1		
11:26	MA39225-CCB1	1		
11:29	MP93240-MB1	1		
11:32	MP93240-B1	1		
11:35	MP93240-S1	1		To reanalysis, FB used as QC
11:39	MP93240-S2	1		To reanalysis, FB used as QC
11:42	JC18558-2	1		(sample used for QC only; not part of login JC18607)
11:45	ZZZZZZ	1		
11:49	ZZZZZZ	1		
11:52	ZZZZZZ	1		
11:55	MA39225-CCVA2	1		
11:59	MA39225-CCB2	1		
12:03	ZZZZZZ	1		
12:06	ZZZZZZ	1		

**ACCUTEST** 

#### SGS Accutest Instrument Runlog Inorganics Analyses

### Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042016W1.CSV Analyst: JO Parameters: Pb

Date Analyzed: 04/20/16 Methods: EPA 200.8 Run ID: MA39225

Time	Sample Description	Dilution PS Factor Reco	v Comments
12:10	MP93240-B1	2	Ag
12:13	MP93240-S1	2	Not needed
12:16	MP93240-S2	2	Not needed
12:20	MP93240-S1	1	Ag
12:24	MA39225-CCVA3	1	
12:27	MA39225-CCB3	1	
12:30	MP93239-MB1	1	
12:34	MP93239-B1	1	
12:37	MP93239-S1	1	
12:40	MP93239-S2	1	
12:44	ZZZZZZ	1	
12:47	JC18578-1	1	(sample used for QC only; not part of login JC18607)
12:50	ZZZZZZ	1	
12:54	ZZZZZZ	1	
12:57	ZZZZZZ	1	
13:00	MA39225-CCVA4	1	
13:04	MA39225-CCB4	1	
13:07	ZZZZZZ	1	
13:11	JC18607-1	1	Confirmed in MA39235
Last r	JC18607-2 reportable sample ZZZZZZ	e/prep for job	Confirmed in MA39235 JC18607
13:21	ZZZZZZ	1	
13:24	MA39225-CCVA5	1	

13:28 MA39225-CCB5

---->

Last reportable CCB for job JC18607 Refer to raw data for calibration curve and standards.

**ACCUTEST** 

# Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042016W1.CSV Analyst: JO

Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8

Parameters: Pb

rara	meters. PD								
Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
10:13	MA39225-STD1	100	100	100	100	100	100	100	100
10:17	MA39225-STD2	100	100	100	100	100	100	100	100
10:20	MA39225-STD3	100	100	100	100	100	100	100	100
10:23	MA39225-STD4	97.136	100.109	99.561	99.894	98.21	99.583	100.206	100.63
10:26	MA39225-STD5	101.693	100.647	101.766	100.965	99.612	100.872	101.65	102.393
10:30	MA39225-STD6	98.284	99.834	101.03	100.644	100.017	100.176	100.852	101.396
10:33	MA39225-STD7	98.599	99.974	100.638	100.73	99.689	99.619	100.899	101.788
10:36	MA39225-STD8	97.958	99.632	100.451	100.08	99.249	100.486	101.413	101.361
10:39	MA39225-STD9	99.138	98.591	99.784	101.28	98.602	99.536	100.539	101.681
10:43	MA39225-STD10	98.083	100.336	100.348	100.016	99.373	100.65	100.264	101.467
10:46	MA39225-STD11	99.312	99.829	100.302	100.779	98.827	100.791	101.614	102.107
10:49	MA39225-STD12	96.135	98.643	99.745	99.27	96.553	98.533	100.237	101.613
10:53	MA39225-STD13	96.667	99.986	101.866	99.976	96.577	99.371	101.404	102.498
11:02	ZZZZZZ	101.15	102.874	102.6	103.465	101.676	101.813	101.364	101.571
11:06	MA39225-ICVA1	99.621	100.65	102.413	102.603	98.268	100.467	101.872	103.022
11:09	MA39225-ICV1	99.284	100.065	100.578	100.934	99.631	100.382	100.699	101.331
11:12	MA39225-ICB1	101.772	101.299	101.574	102.309	100.269	101.212	100.726	101.775
11:16	MA39225-CRI1	103.191	101.487	101.802	102.612	100.562	101.989	102.189	102.51
11:19	MA39225-CRIA1	102.388	100.791	101.076	101.311	101.02	101.674	100.868	101.758
11:22	MA39225-CCVA1	105.243	102.025	102.666	101.204	98.976	100.591	102.794	103.722
11:26	MA39225-CCB1	104.41	100.998	100.111	100.443	100.072	101.211	100.949	102.177
11:29	MP93240-MB1	103.833	102.082	101.447	101.798	100.626	101.429	101.543	102.27
11:32	MP93240-B1	105.038	101.973	101.762	102.449	99.762	101.323	101.722	103.105
11:35	MP93240-S1	No result	s reported	for the	elements as	ssociated w	ith this i	internal st	andard.
11:39	MP93240-S2	No result	s reported	for the	elements as	ssociated w	ith this i	internal st	andard.
11:42	JC18558-2	122.105	103.478	102.754	104.284	102.779	103.229	103.53	105.186
11:45	ZZZZZZ	118.515	102.114	102.017	102.763	96.27	101.457	102.957	104.124
11:49	ZZZZZZ	120.827	102.137	102.434	102.788	96.758	101.583	103.919	106.015
11:52	ZZZZZZ	126.237 !	a102.526	102.168	102.932	99.78	104.033	105.656	107.127
11:55	MA39225-CCVA2	110.891	100.431	100.322	100.636	96.85	98.51	101.64	102.81
11:59	MA39225-CCB2	110.071	100.531	99.881	99.991	99.176	99.896	99.77	101.414
12:03	ZZZZZZ	117.916	101.317	100.808	101.629	95.472	99.812	101.712	103.33
12:06	ZZZZZZ	121.735	102.325	101.834	102.631	97.801	102.345	104.783	105.508



# Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042016W1.CSV Date Analyzed: 04/20/16 Methods: EPA 200.8 Run ID: MA39225

Analyst: JO Parameters: Pb

	Sample								
Time	Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
12:10	MP93240-B1	108.892	98.815	98.794	99.089	97.406	98.312	98.688	99.524
12:13	MP93240-S1	No result	s reported	for the	elements	associated	with this	internal	standard.
12:16	MP93240-S2	No result	s reported	for the	elements	associated	with this	internal	standard.
12:20	MP93240-S1	No result	s reported	for the	elements	associated	with this	internal	standard.
12:24	MA39225-CCVA3	109.476	97.422	97.657	97.844	94.868	97.472	99.595	100.945
12:27	MA39225-CCB3	106.052	97.307	96.198	96.016	96.516	96.739	97.65	99.734
12:30	MP93239-MB1	107.104	96.636	95.749	95.961	96.2	96.985	97.427	98.175
12:34	MP93239-B1	105.706	97.314	97.781	98.369	95.633	96.475	97.973	99.381
12:37	MP93239-S1	118.238	99.873	99.742	100.837	96.453	99.346	101.996	103.612
12:40	MP93239-S2	117.812	96.894	97.211	98.43	93.906	97.311	100.812	102.342
12:44	ZZZZZZ	110.394	95.257	95.335	96.402	95.165	96.771	97.271	98.386
12:47	JC18578-1	117.767	98.111	97.517	99.116	94.084	96.427	99.447	101.276
12:50	ZZZZZZ	120.903	98.03	98.046	98.192	94.212	98.739	100.707	102.592
12:54	ZZZZZZ	121.069	97.952	98.449	98.978	94.767	98.714	101.634	103.838
12:57	ZZZZZZ	125.345 !	a101.104	99.124	101.001	97.389	101.317	103.868	105.776
13:00	MA39225-CCVA4	111.684	95.019	95.504	95.068	93.41	95.257	98.603	100.406
13:04	MA39225-CCB4	108.561	95.146	93.067	94.484	93.779	95.648	95.668	96.727
13:07	ZZZZZZ	115.934	91.858	90.804	91.386	88.169	91.588	96.387	98.4
13:11	JC18607-1	126.404 !	a98.252	99.178	99.658	97.116	100.844	103.898	106.355
13:14	JC18607-2	123.8	97.223	98.112	98.421	95.338	99.116	102.1	104.269
13:17	ZZZZZZ	122.23	98.942	98.354	99.57	95.146	98.735	103.358	104.843
13:21	ZZZZZZ	122.261	101.136	101.712	101.294	97.456	100.899	103.808	106.488
13:24	MA39225-CCVA5	112.678	99.422	100.03	99.454	97.33	99.18	103.883	104.777
13:28	MA39225-CCB5	108.781	98.619	99.215	99.4	98.215	98.274	99.497	101.455

! = Outside limits.

#### LEGEND:

Istd#	Parameter		Limits	
Istd#1	Lithium		60-125	%
Istd#2	Scandium		60-125	용
Istd#3	Germanium	(72-1)	60-125	용
Istd#4	Germanium	(74-1)	60-125	용
Istd#5	Rhodium		60-125	용
Istd#6	Indium		60-125	용
Istd#7	Terbium		60-125	용
Istd#8	Holmium		60-125	%

(a) No samples reported for the elements associated with this internal standard.

**ACCUTEST** 

# Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042016W1.CSV Analyst: JO Date Analyzed: 04/20/16 Methods: EPA 200.8 Run ID: MA39225

Parameters: Pb

Time	Sample Description	Istd#9
10:13	MA39225-STD1	100
10:17	MA39225-STD2	100
10:20	MA39225-STD3	100
10:23	MA39225-STD4	100.54
10:26	MA39225-STD5	101.62
10:30	MA39225-STD6	101.19
10:33	MA39225-STD7	102.137
10:36	MA39225-STD8	102.603
10:39	MA39225-STD9	102.713
10:43	MA39225-STD10	100.454
10:46	MA39225-STD11	101.155
10:49	MA39225-STD12	99.869
10:53	MA39225-STD13	99.487
11:02	ZZZZZZ	100.847
11:06	MA39225-ICVA1	102.055
11:09	MA39225-ICV1	101.34
11:12	MA39225-ICB1	101.642
11:16	MA39225-CRI1	102.242
11:19	MA39225-CRIA1	102.023
11:22	MA39225-CCVA1	101.517
11:26	MA39225-CCB1	102.023
11:29	MP93240-MB1	101.889
11:32	MP93240-B1	102.405
11:35	MP93240-S1	No results reported for the elements associated with this internal standard.
11:39	MP93240-S2	No results reported for the elements associated with this internal standard.
11:42	JC18558-2	105.996
11:45	ZZZZZZ	101.353
11:49	ZZZZZZ	103.168
11:52	ZZZZZZ	110.851
11:55	MA39225-CCVA2	101.56
11:59	MA39225-CCB2	101.351
12:03	ZZZZZZ	99.33
12:06	ZZZZZZ	101.898

# Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042016W1.CSV Date Analyzed: 04/20/16 Methods: EPA 200.8 Analyst: JO Run ID: MA39225

Parameters: Pb

Time	Sample Description	Istd#9
12:10	MP93240-B1	101.109
12:13	MP93240-S1	No results reported for the elements associated with this internal standard.
12:16	MP93240-S2	No results reported for the elements associated with this internal standard.
12:20	MP93240-S1	No results reported for the elements associated with this internal standard.
12:24	MA39225-CCVA3	99.488
12:27	MA39225-CCB3	99.198
12:30	MP93239-MB1	98.782
12:34	MP93239-B1	100.245
12:37	MP93239-S1	101.457
12:40	MP93239-S2	100.752
12:44	ZZZZZZ	98.931
12:47	JC18578-1	99.818
12:50	ZZZZZZ	101.232
12:54	ZZZZZZ	102.381
12:57	ZZZZZZ	104.805
13:00	MA39225-CCVA4	100.809
13:04	MA39225-CCB4	97.436
13:07	ZZZZZZ	98.517
13:11	JC18607-1	105.093
13:14	JC18607-2	103.696
13:17	ZZZZZZ	102.479
13:21	ZZZZZZ	103.51
13:24	MA39225-CCVA5	103.826
13:28	MA39225-CCB5	102.352
! = Ou	tside limits.	
LEGEND	: Parameter	Limits

 Istd#
 Parameter
 Limits

 Istd#9
 Bismuth
 60-125 %



#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

# Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: result < RL

Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8 Units: ug/l

Time: Sample ID:			11:12 ICB1		11:26 CCB1	l	11:59 CCB2		12:27 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	50	.1								
Antimony	2.0	.12	anr							
Arsenic	1.0	.38	anr							
Barium	1.0	.011								
Beryllium	0.30	.004	anr							
Boron	50	3.2								
Cadmium	0.50	.008	anr							
Calcium	250	2.7								
Chromium	4.0	.019								
Cobalt	0.50	.003								
Copper	4.0	.02								
Iron	50	1.1								
Lead	0.50	.009	0.0059	<0.50	0.018	<0.50	0.027	<0.50	0.042	<0.50
Magnesium	250	.17								
Manganese	1.0	.019								
Molybdenum	1.0	.02								
Nickel	4.0	.028								
Potassium	250	2								
Selenium	1.0	. 29	anr							
Silver	2.0	.019	anr							
Sodium	250	3.9								
Strontium	1.0	.009								
Thallium	0.50	.016	anr							
Tin	1.0	.039								
Titanium	1.0	.034								
Vanadium	4.0	.11								
Zinc	10	. 29								

(\*) Outside of QC limits (anr) Analyte not requested

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

# Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: result < RL

Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8 Units: ug/l

Time: Sample ID:			13:04 CCB4		13:28 CCB5	
Metal	RL	IDL	raw	final	raw	final
Aluminum	50	.1				
Antimony	2.0	.12	anr			
Arsenic	1.0	.38	anr			
Barium	1.0	.011				
Beryllium	0.30	.004	anr			
Boron	50	3.2				
Cadmium	0.50	.008	anr			
Calcium	250	2.7				
Chromium	4.0	.019				
Cobalt	0.50	.003				
Copper	4.0	.02				
Iron	50	1.1				
Lead	0.50	.009	0.036	<0.50	0.037	<0.50
Magnesium	250	.17				
Manganese	1.0	.019				
Molybdenum	1.0	.02				
Nickel	4.0	.028				
Potassium	250	2				
Selenium	1.0	. 29	anr			
Silver	2.0	.019	anr			
Sodium	250	3.9				
Strontium	1.0	.009				
Thallium	0.50	.016	anr			
Tin	1.0	.039	GIII.			
Titanium	1.0	.039				
Vanadium	4.0	.11				
Zinc	10	.29				

(\*) Outside of QC limits (anr) Analyte not requested

SGS ACCUTEST

### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

# Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	ICVA True	11:06 ICVA1 Results	% Rec	ICV True	11:09 ICV1 Results	% Rec	CCVA True	11:22 CCVA1 Results	% Rec	
Aluminum										
Antimony	anr									
Arsenic	anr									
Barium										
Beryllium	anr									
Boron										
Cadmium	anr									
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	60	57.8	96.3				50	50.6	101.2	
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium	anr									
Silver	anr									
Sodium										
Strontium										
Thallium	anr									
Tin										
Titanium										
Vanadium										
Zinc										

(\*) Outside of QC limits (anr) Analyte not requested

### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

# Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	CCVA True	11:55 CCVA2 Results	% Rec	CCVA True	12:24 CCVA3 Results	% Rec	CCVA True	13:00 CCVA4 Results	% Rec	
Aluminum										
Antimony	anr									
Arsenic	anr									
Barium										
Beryllium	anr									
Boron										
Cadmium	anr									
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	50	47.6	95.2	50	47.7	95.4	50	47.2	94.4	
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium	anr									
Silver	anr									
Sodium										
Strontium										
Thallium	anr									
Tin										
Titanium										
Vanadium										
Zinc										

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

# Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8 Units: ug/l

Time: Sample ID:		13:24 CCVA5	
Metal	True	Results	% Rec
Aluminum			
Antimony	anr		
Arsenic	anr		
Barium			
Beryllium	anr		
Boron			
Cadmium	anr		
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead	50	47.5	95.0
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium	anr		
Silver	anr		
Sodium			
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc			

(\*) Outside of QC limits (anr) Analyte not requested

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

# Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: 70 to 130 % Recovery

Run ID: MA39225

Date Analyzed: 04/20/16 Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	CRI True	CRIA True	11:16 CRI1 Results	% Rec	11:19 CRIA1 Results	% Rec
Aluminum	25	25				
Antimony	2.0	0.25	anr			
Arsenic	0.50	1.0				
Barium	1.0	0.50				
Beryllium	0.50	0.30	anr			
Boron	25	2.5				
Cadmium	0.50	0.25	anr			
Calcium	250	125				
Chromium	1.0	2.0				
Cobalt	0.50	0.25				
Copper	2.0	2.0				
Iron	25	25				
Lead	0.50	0.25	0.50	100.0		
Magnesium	250	125				
Manganese	0.50	0.25				
Molybdenum	1.0	0.50				
Nickel	1.0	2.0				
Potassium	250	125				
Selenium	0.50	1.0	anr			
Silver	0.50	1.0	anr			
Sodium	250	125				
Strontium	5.0	0.50				
Thallium	0.50	0.25	anr			
Tin	5.0	0.50				
Titanium	1.0	0.50				
Vanadium	1.0	2.0				
Zinc	5.0	2.0				

(\*) Outside of QC limits (anr) Analyte not requested

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#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

#### Login Number: JC18607

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93239 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/20/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.050	.0001	.00074		
Antimony	0.0020	.00012	.00021		
Arsenic	0.0010	.00038	.00081		
Barium	0.0010	.000011	.000044		
Beryllium	0.00030	.000004	.000079		
Boron	0.050	.0032			
Cadmium	0.00050	.000008	.000041		
Calcium	0.25	.0027	.0075		
Chromium	0.0040	.000019	.00018		
Cobalt	0.00050	.000003	.000014		
Copper	0.0040	.00002	.0012		
Iron	0.050	.0011	.009		
Lead	0.00050	.000009	.000018	0.000033	<0.00050
Magnesium	0.25	.00017	.00051		
Manganese	0.0010	.000019	.00006		
Molybdenum	0.0010	.00002	.000059		
Nickel	0.0040	.000028	.00023		
Potassium	0.25	.002	.015		
Selenium	0.0010	.00029	.00051		
Silver	0.0020	.000019	.000022		
Sodium	0.25	.0039	.015		
Strontium	0.0010	.000009	.000014		
Thallium	0.00050	.000016	.0001		
Tin	0.0010	.000039	.000043		
Titanium	0.0010	.000034	.00038		
Vanadium	0.0040	.00011	.00082		
Zinc	0.010	.00029	.00061		

Associated samples MP93239: JC18607-1, JC18607-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

#### Login Number: JC18607 Account: PARS - PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93239 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

04/20/16 Prep Date:

Metal	JC18578- Original		Spikelot MPXDW7	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead	0.015	0.11	0.10	95.0	70-130
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP93239: JC18607-1, JC18607-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (N) Matrix Spike Rec. outside of QC limits (anr) Analyte not requested



#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC18607 Account: PARS - PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93239 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/20/16

Metal	JC18578-1 Original MSD	Spikelot MPXDW7	% Rec	MSD RPD	QC Limit	
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	0.015 0.13	0.10	95.0	0.0	20	
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						
	1 00000					

Associated samples MP93239: JC18607-1, JC18607-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (N) Matrix Spike Rec. outside of QC limits (anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

#### Login Number: JC18607 Account: PARS - PARS Environmental Services

Units: mg/l

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93239 Methods: EPA 200.8

Prep Date: 04/20/16

Matrix Type: DRINKING WATER

Aluminum Antimony Arsenic Barium Beryllium Boron Cadmium Chromium Cobalt Copper Cron Lead 0.092 0.10 92.0 85-115 Magnesium Manganese Molybdenum Wickel Cotassium Selenium Silver Sodium Chrontium Challiu	riep Date:			04/20/1	
Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Cron Lead 0.092 0.10 92.0 85-115 Magnesium Manganese Molybdenum Cickel Cotassium Celenium Cilorer Codium Chrontium Challiu	Metal				
Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Cron Lead 0.092 0.10 92.0 85-115 Magnesium Manganese Molybdenum Mickel Cotassium Selenium Silver Sodium Strontium Challium	Aluminum				
Sarium Seryllium Soron Cadmium Calcium Chromium Cobalt Copper Cron Lead 0.092 0.10 92.0 85-115 Magnesium Manganese Molybdenum Mickel Cotassium Selenium Schallium Cha	Antimony				
Seryllium Soron Sadmium Salcium Chromium Cobalt Copper Sron Lead O.092 O.10 92.0 85-115 Magnesium Manganese Molybdenum Sickel Potassium Selenium Strontium Challium Challium Challium Challium Challium Challium Challium Challium Challium Challium Challium Challium Challium Challium Challium Challium	Arsenic				
Cadmium Calcium Chromium Cobalt Copper Cron Lead 0.092 0.10 92.0 85-115 Magnesium Manganese Molybdenum Vickel Cotassium Celenium Citanium Challium Citanium Cranadium	Barium				
Cadmium Calcium Chromium Cobalt Copper Cron Lead 0.092 0.10 92.0 85-115 Magnesium Manganese Molybdenum Mickel Cotassium Celenium Cotassi	Beryllium				
Calcium Chromium Cobalt Copper Cron Lead Consequence Calcium C	Boron				
Chromium Cobalt Copper Cron Lead 0.092 0.10 92.0 85-115 Magnesium Manganese Molybdenum Mickel Cotassium Selenium Scilver Codium Challium Challium Critanium Canadium	Cadmium				
Cobalt Copper Cron Lead 0.092 0.10 92.0 85-115 Magnesium Manganese Molybdenum Vickel Cotassium Selenium Silver Codium Challium Challium Citanium Vanadium	Calcium				
Copper Cron  Lead 0.092 0.10 92.0 85-115  Magnesium  Manganese  Molybdenum  Nickel  Potassium  Selenium  Silver  Sodium  Challium  Challium  Citanium  Canadium	Chromium				
Acceptance of the control of the con	Cobalt				
dagnesium danganese dolybdenum Nickel Potassium Selenium Strontium Challium Citanium Vanadium	Copper				
Magnesium Manganese Molybdenum Mickel Potassium Selenium Silver Sodium Strontium Challium Citanium Wanadium	Iron				
Manganese Molybdenum  Mickel  Potassium  Selenium  Silver  Sodium  Strontium  Challium  Cin  Citanium  Vanadium	Lead	0.092	0.10	92.0	85-115
Tickel Potassium Selenium Silver Sodium Strontium Challium Citanium	Magnesium				
Tickel Potassium Selenium Silver Sodium Strontium Challium Citanium Canadium	Manganese				
Potassium Selenium Silver Sodium Strontium Challium Citanium	Molybdenum				
Selenium Silver Sodium Strontium Challium Cin Citanium Vanadium	Nickel				
Silver Sodium Strontium Challium Fin Fitanium Vanadium	Potassium				
Sodium Strontium Challium Tin Titanium Vanadium	Selenium				
Strontium Challium Cin Citanium Vanadium	Silver				
Thallium Tin Titanium Vanadium	Sodium				
'in 'itanium Vanadium	Strontium				
Titanium Vanadium	Thallium				
Vanadium	Tin				
	Titanium				
ling	Vanadium				
illic	Zinc				

Associated samples MP93239: JC18607-1, JC18607-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested





# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT MAURICE HAWK ELEMENTARY SCHOOL MAY 2016

# APPENDIX C LABORATORY ANALYTICAL REPORT – 4/30/16



# ACCUTEST New Jersey

05/09/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



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Automated Report

# Technical Report for

# **PARS** Environmental Services

WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

565-84

SGS Accutest Job Number: JC19412

Sampling Date: 04/30/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 RTorres@ParsEnviro.com

ATTN: Rafael Torres

Total number of pages in report: 90

TNI TABODATORI

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Maney T. Cole
Nancy Cole
Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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# **Sample Summary**

PARS Environmental Services

Job No:

JC19412

WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ Project No: 565-84

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
JC19412-1	04/30/16	07:17 JP	04/30/16	DW	Drinking Water	MHE-01-163-DW-B
JC19412-2	04/30/16	07:20 JP	04/30/16	DW	Drinking Water	MHE-01-164-DW-P
JC19412-3	04/30/16	07:24 JP	04/30/16	DW	Drinking Water	MHE-01-165-DW-P
JC19412-4	04/30/16	07:24 JP	04/30/16	DW	Drinking Water	MHE-01-165-CF-P
JC19412-5	04/30/16	07:26 JP	04/30/16	DW	Drinking Water	MHE-01-166-DW-P
JC19412-6	04/30/16	07:23 JP	04/30/16	DW	Drinking Water	MHE-01-167-CF-P
JC19412-7	04/30/16	07:33 JP	04/30/16	DW	Drinking Water	MHE-01-168-DW-P
JC19412-8	04/30/16	07:11 JP	04/30/16	DW	Drinking Water	MHE-01-01-DW-P
JC19412-9	04/30/16	07:39 JP	04/30/16	DW	Drinking Water	MHE-01-169-DW-P
JC19412-10	04/30/16	07:05 JP	04/30/16	DW	Drinking Water	MHE-01-202-DW-P
JC19412-11	04/30/16	07:08 JP	04/30/16	DW	Drinking Water	MHE-01-216-DW-P
JC19412-12	04/30/16	07:44 JP	04/30/16	DW	Drinking Water	MHE-01-160-DW-P
JC19412-13	04/30/16	07:40 JP	04/30/16	DW	Drinking Water	MHE-01-170-DW-B



# Sample Summary (continued)

PARS Environmental Services

Job No:

JC19412

WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ Project No: 565-84

Sample Collected				Matrix	Client	
Number	Date	Time By	Received	Code Type	Sample ID	
JC19412-14	04/30/16	07:42 JP	04/30/16	DW Drinking Water	MHE-01-162-DW-P	

# CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No JC19412

Site: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Win Report Date 5/9/2016 1:47:31 PM

On 04/30/2016, 14 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 14.4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC19412 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

### Metals By Method EPA 200.8

Matrix: DW Batch ID: MP93360

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC18908-1MS, JC18908-1MSD were used as the QC samples for metals.

Matrix: DW Batch ID: MP93459

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC19412-1MS, JC19412-1MSD were used as the QC samples for metals.

Matrix: DW Batch ID: MP93460

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC19412-12MS, JC19412-12MSD were used as the QC samples for metals.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

SGS ACC

# **Summary of Hits Job Number:** JC19412

Account: PARS Environmental Services

**Project:** WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

**Collected:** 04/30/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC19412-1	MHE-01-163-DW	-В				
Lead		0.0069	0.00050		mg/l	EPA 200.8
JC19412-2	MHE-01-164-DW	-P				
Lead		0.017	0.00050		mg/l	EPA 200.8
JC19412-3	MHE-01-165-DW	-P				
Lead		0.32	0.00050		mg/l	EPA 200.8
JC19412-4	MHE-01-165-CF-	P				
Lead		0.18	0.00050		mg/l	EPA 200.8
JC19412-5	MHE-01-166-DW	-P				
Lead		0.074	0.00050		mg/l	EPA 200.8
JC19412-6	MHE-01-167-CF-	P				
Lead		0.54	0.0010		mg/l	EPA 200.8
JC19412-7	MHE-01-168-DW	-P				
Lead		0.0066	0.00050		mg/l	EPA 200.8
JC19412-8	MHE-01-01-DW-I	P				
Lead		0.0025	0.00050		mg/l	EPA 200.8
JC19412-9	MHE-01-169-DW	-P				
Lead		0.0069	0.00050		mg/l	EPA 200.8
JC19412-10	MHE-01-202-DW	-P				
Lead		0.0010	0.00050		mg/l	EPA 200.8
JC19412-11	MHE-01-216-DW	-P				
Lead		0.0066	0.00050		mg/l	EPA 200.8

Page 2 of 2

# **Summary of Hits Job Number:** JC19412

Account: PARS Environmental Services

WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ **Project:** 

**Collected:** 04/30/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method			
JC19412-12	MHE-01-160-DW-P								
Lead		0.0045	0.00050		mg/l	EPA 200.8			
JC19412-13	MHE-01-170-DW-B								
Lead		0.027	0.00050		mg/l	EPA 200.8			
JC19412-14	MHE-01-162-DW-P								
Lead		0.0037	0.00050		mg/l	EPA 200.8			



# Section 4

Sample Results	
Report of Analysis	

# **Report of Analysis**

Client Sample ID: MHE-01-163-DW-B

Lab Sample ID:JC19412-1Date Sampled:04/30/16Matrix:DW - Drinking WaterDate Received:04/30/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

# **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0069	0.015	0.00050	0 mg/1	1	05/02/16	05/02/16 до	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39312(2) Prep QC Batch: MP93459

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: MHE-01-164-DW-P

Lab Sample ID:JC19412-2Date Sampled:04/30/16Matrix:DW - Drinking WaterDate Received:04/30/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

# **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.017	0.015	0.0005	0 mg/1	1	05/02/16	05/02/16 јо	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39312(2) Prep QC Batch: MP93459

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: MHE-01-165-DW-P

Lab Sample ID:JC19412-3Date Sampled:04/30/16Matrix:DW - Drinking WaterDate Received:04/30/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

# **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.32	0.015	0.00050 mg/l		1	05/02/16	05/02/16 до	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39312(2) Prep QC Batch: MP93459

RL = Reporting Limit



# 4

# **Report of Analysis**

Client Sample ID: MHE-01-165-CF-P

Lab Sample ID:JC19412-4Date Sampled:04/30/16Matrix:DW - Drinking WaterDate Received:04/30/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

# **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.18	0.015	0.0005	0 mg/1	1	05/03/16	05/04/16 до	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39328(2) Prep QC Batch: MP93360

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: MHE-01-166-DW-P

Lab Sample ID: JC19412-5 **Date Sampled:** 04/30/16 Matrix: **Date Received:** 04/30/16 DW - Drinking Water Percent Solids: n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

# **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.074	0.015	0.0005	0 mg/1	1	05/03/16	05/04/16 јо	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39328 (2) Prep QC Batch: MP93360

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: MHE-01-167-CF-P

Lab Sample ID:JC19412-6Date Sampled:04/30/16Matrix:DW - Drinking WaterDate Received:04/30/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

# **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.54	0.015	0.0010	mg/l	2	05/02/16	05/02/16 до	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39312(2) Prep QC Batch: MP93459

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: MHE-01-168-DW-P

Lab Sample ID:JC19412-7Date Sampled:04/30/16Matrix:DW - Drinking WaterDate Received:04/30/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

# **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0066	0.015	0.00050	0 mg/1	1	05/02/16	05/02/16 до	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39312(2) Prep QC Batch: MP93459

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: MHE-01-01-DW-P

Lab Sample ID:JC19412-8Date Sampled:04/30/16Matrix:DW - Drinking WaterDate Received:04/30/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

# **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0025	0.015	0.0005	0 mg/l	1	05/02/16	05/02/16 до	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39312(2) Prep QC Batch: MP93459

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: MHE-01-169-DW-P

Lab Sample ID:JC19412-9Date Sampled:04/30/16Matrix:DW - Drinking WaterDate Received:04/30/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

# **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0069	0.015	0.0005	0 mg/1	1	05/02/16	05/02/16 до	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39312(2) Prep QC Batch: MP93459

RL = Reporting Limit





# **Report of Analysis**

Client Sample ID: MHE-01-202-DW-P

Lab Sample ID: JC19412-10 **Date Sampled:** 04/30/16 Matrix: **Date Received:** 04/30/16 DW - Drinking Water Percent Solids: n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

# **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0010	0.015	0.00050	0 mg/1	1	05/02/16	05/02/16 до	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39312 (2) Prep QC Batch: MP93459

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



**ACCUTEST** 

# **Report of Analysis**

Client Sample ID: MHE-01-216-DW-P

Lab Sample ID:JC19412-11Date Sampled:04/30/16Matrix:DW - Drinking WaterDate Received:04/30/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0066	0.015	0.0005	0 mg/1	1	05/02/16	05/02/16 до	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39312(2) Prep QC Batch: MP93460

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



# **Report of Analysis**

Client Sample ID: MHE-01-160-DW-P

Lab Sample ID: JC19412-12 **Date Sampled:** 04/30/16 Matrix: **Date Received:** 04/30/16 DW - Drinking Water Percent Solids: n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0045	0.015	0.00050	0 mg/1	1	05/02/16	05/02/16 до	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39312 (2) Prep QC Batch: MP93460

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



**ACCUTEST** 

# **Report of Analysis**

Client Sample ID: MHE-01-170-DW-B

Lab Sample ID:JC19412-13Date Sampled:04/30/16Matrix:DW - Drinking WaterDate Received:04/30/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.027	0.015	0.0005	0 mg/l	1	05/02/16	05/02/16 до	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39312(2) Prep QC Batch: MP93460

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



21 of 90 ACCUTEST JC19412

# **Report of Analysis**

Client Sample ID: MHE-01-162-DW-P

Lab Sample ID:JC19412-14Date Sampled:04/30/16Matrix:DW - Drinking WaterDate Received:04/30/16Percent Solids:n/a

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0037	0.015	0.0005	0 mg/1	1	05/02/16	05/02/16 јо	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39312(2) Prep QC Batch: MP93460

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)





# **Section 5**

Misc. Forms

**Custody Documents and Other Forms** 

Includes the following where applicable:

- · Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

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SGS	ACCUTEST

### CHAIN OF CUSTODY

PAGE	1	OF	2

<b>JUJ</b>	ACCU	JTEST 2235 Route			oute 130, Dayton, NJ 08810				FED-E	FED-EX Tracking #			Bottle Order Control #											
				TEL. 732-32	9-0200	FAX: 7	32-329-3		30				SGS A	cutest C	luote #				SGS Accutest Job# JC 19412			10		
Client / Reporting Information				Project	Informa	ccutest.	com							-	ueste						C 1997 A 100 C 100		177	
		Project Name:				-						escalited):		Kec	uestec	ı Anaı	ysis (	see i	ESIC	JODE	sneetj	l	l	Matrix Codes
Signal Agames Environmenta Signal Agames Environmenta SOO HOGOON DO SO City State Project Contact	1	wwi	P. May	vice	Hai	vK.	'ES	-	ersousses er		*************													DW - Drinking Water GW - Ground Water
500 HAGS ON DC 50	rite	140			20000000					64.50(X)	e se su la company		9							İ		ļ		WW - Water SW - Surface Water
City State	Zip	City	-	State	Company	nformati / Name	on ( if diffe	rent fro	m Rep	ort to)			1 9	]										SO - Soil SL- Sludge
Robbinsville UJ 08	7691			7000	İ								6	1										SED-Sediment OI - Oil
Project Contact	E-mail	Project #	~4.4.4		Street Ad	idress							10	1						١.	'			LIQ - Other Liquid AIR - Air
Rafael Torres. Rio:	Fax#	Client Purchase	Order#		City			Sta	ite		Zip		109	·							'			SOL - Other Solid WP - Wipe
609-890-7277													1											FB-Field Blank
Sampler(s) Name(s)	Phone #	Project Manager	T		Attention								7	1		- 1								EB-Equipment Blank RB- Rinse Blank
(Perrini		Karue1	201163	Collection	Ц		T	l N	lumber	of present	verl Bottle	*	1						ļ					TB-Trip Blank
5GS										1 1	. 1		3						l	İ				
Sample # Field ID / Point of Collection		MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	NaOH	HNO3	NONE	DI Water	ENCORE	7											LAB USE ONLY
1 MHE-01-163-DW-B			4/30/16						X				}											
2 MHE-01-164-DW-P				7:20					11															
3 MHE-01-165=DW-1				7:24																				A22)
4 MHE-01-165-CF- A				7:24						П														(1/4)
5 MHE-01166-DW-P				7:26																				
6 MHE-01-167-CF.P				7:23		_					П	Т												
7 MHE-01-168-DW-				7:33							П			,	NADI	C DE	EIVE	ם ח	SIDE	DE AC	CEPTA	BLE		
\$ MHE-01-01-DW-				7:11					Ш	П					TEMP	RATU	RE R	NGE	INIT	ALS R	EQUIR			
9 MHE-01-169-DW-	P			7:39								Τ			ТО	PRO	EED	WITH	ANA	YSIS.	<del>\                                    </del>			
10 MHE.01202-DW-	4			7:05					П					MITL	NL ASI	-00		7p	٦.		•			
11 MHE-01-216-DW	٦ -		/	7:08					П	П				14111/	NL AGI	-00W	EN	70	U.K	-				
12 MME-01-160- DW.	- 4-		A	7:44					71					.ABE	LVE	IFIC	TIO	<u>~</u>			$\Box$		$\neg$	***
Turnaround Time ( Business days)								Delivera	able In		-			X11/016				Comr	ments	Specia	I Instruc	tions		
Std. 10 Business Days		Approved By (SGS A	Accutest PM): / Date:				ial "A" (Lo ial "B" ( Lo			_	NYASP NYASP	_	-							SAME.				-
5 Day RUSH							Level 3+4	,			State Fo		01,412											
3 Day RUSH		-				J Reduc				_	EDD Fo	rmat												
2 Day RUSH			<del></del> -		_	ommerc					Other _													
other		***************************************					of Known Results Onl					00 e.	ımmanı			-								
Emergency & Rush T/A data available VIA Lablin	k				NJ Reduc	ed = Res	ults + QC	Summar	y + Pa	rtial Rav	v data				Sampl	e inve	ntorv	is ve	rified	upon	receipt	in the	Labo	oratory
Relinquished by Sampler:	Data Time	San	nple Custody mu	st be docum	ented bel	ow eacl	n time saı	mples c	hang	e poss	ession	, inclu	iding c	ourier	delivery									
1 2 Permi	Date Time:		Received By:	ame	Mu	<u>د</u>		Relinquie 2							-	ate Time	):		Receive 2	d By:				
Relinquished by Sampler:	Date Time:		Received By: 3			•		Relinquis 4	hed By	:					c	ate Time	<b>:</b>		Receive	d By:	4	Bollo	π	
Relinquished by:	Date Time:		Received By:					Custody	Seal #				Intact Not intac		Preserved	W.J.	pplicab	de			On lot		Cooler 1	emp. 14 0
L	I	t	<u> </u>										Not intac			<u>ار ت ا</u>					Vo.	٠.		101

JC19412: Chain of Custody Page 1 of 3

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SGS A	CCUTEST	2235	SGS Accutest - Dayton 5 Route 130, Dayton, NJ 0	8810	FED-EX Tracking	#	-	Bottle Order C	ontrol#	
			329-0200 FAX: 732-329- www.accutest.com		SGS Accutest Qu	ole#		SGS Accutest	Job# T	19412
Client / Reporting Information		Proje	ct Information		Regi	ested Ana	ilvsis ( see	TEST CODE	ACCOMPANIES OF PROPERTY OF THE PARTY OF THE	Matrix Codes
Company Name  LAC SC h v NON mental  Street Address	Project Name:	P-maurice	Hunk E.	S						DW - Drinking Wat GW - Ground Wate
TODMOTTON AT SUITESTIC City State  TODDNIWIN WS OFF	City  G   Project #	State	Billing Information ( if di Company Name	201000000000000000000000000000000000000	20.8					WW - Water SW - Surface Wate SO - Soil SL - Skudge SED-Sediment OI - Oil LIQ - Other Liquid AIR - Air
Rufac Times Rivers@pars			City	State Zip	326					SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blan
Sampler(s) Name(s)  2 Perron	Phone # Project Manage Rafa e	TOTASS Collection	Attention:	Number of preserved Bottles						RB- Rinse Blank TB-Trip Blank
SGS Accelent Sample # Field ID / Point of Collection	MEOH/DI Viai #	Date Time	Sampled by Matrix # of bottl	HCI NaOH HNO3 H2SO4 NONE DI Water MEOH ENCORE	DW					LAB USE ONLY
13 MHE-01-170-DW-6		4/30/16 7:40	1	X						
14 MHE-01-162-DW	-P	7.4	2	$\bot$ $\bot$ $\bot$ $\bot$ $\bot$ $\bot$ $\bot$						
	$\rightarrow$	+	A + - + -	++++/N++				-		
	$\overline{}$	$+\sqrt{-}$	+	<del>                                     </del>			$\longrightarrow$			
	$\overline{}$	++	+ $+$ $+$	+ X + + X		4	<del>                                     </del>	+	+	
			++	<del>//</del>				H/	1 1	
		$+$ $\star$ $+$ $-$	$++ \vee$	<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	$\mathbb{N}$	-		1		
			++	+++++	$+ \times +$	-		$\leftarrow$	+	
			++/+	<del>+                                     </del>	+ + +				1	
			+ /		++++		$\leftarrow$		++	
			1/1-1-	$\frac{1}{1}$	++			+-		<del>\                                    </del>
Turnaround Time ( Business days)			Dat	a Deliverable Information			Com	ments / Spec	ial Instructions	<u> </u>
Std. 10 Business Days 5 Day RUSH 3 Day RUSH	Approved By (SGS	S Accutest PM): / Date:	Commercial "A" ( Commercial "B" ( FULLT1 (Level 3-	Level 2) NYASP Cated	jory B	11.7				
2 Day RUSH			Commercial "C"	Other						
other				on Quality Protocol Reporting Only, Commercial "B" = Results + QC S	ımmarv					
Emergency & Rush T/A data available VIA Lablink			NJ Reduced = Results + Q	C Summary + Partial Raw data	, ls	Sample inv	entory is v	erified upor	receipt in t	the Laboratory
	Sa ste Time:	Received By:	mented below each time s	samples change possession, incli	uding courier d	elivery.	ne:	Received By:		
12 Perrini		Received By: 018134 June	. Mug	2		52.3 14		2		
Relinquished by Sampler: Da 3	ete Time:	Received By: 3	`	Relinquished By:		Date Tir	ne:	Received By:		
Relinquished by: Da	ite Time:	Received By: 5			Intact P Not intact	reserved when	applicable		On ice	Cooler Temp.

JC19412: Chain of Custody Page 2 of 3

# 5.1

### 15

Job Number: JC19	9412 Client:		Project:						
Date / Time Received: 4/30/	2016 8:34:00 AM	Delivery Method:	Airbill #'s:						
Cooler Temps (Raw Measured Cooler Temps (Corrected	,								
Cooler Security  1. Custody Seals Present: 2. Custody Seals Intact:			Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:	<u>Y or N</u> ☑ □  ☑ □  ☑ □					
1. Temp criteria achieved: 2. Cooler temp verification: 3. Cooler media: 4. No. Coolers:  Cuality Control Preservation 1. Trip Blank present / cooler: 2. Trip Blank listed on COC: 3. Samples preserved properly: 4. VOCs headspace free:		<b>.</b>	Sample Integrity - Condition  1. Sample recvd within HT: 2. All containers accounted for: 3. Condition of sample:  Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis: 4. Compositing instructions clear: 5. Filtering instructions clear:	Y or N					
Comments									

**SGS Accutest Sample Receipt Summary** 

JC19412: Chain of Custody

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5.2

# **Internal Sample Tracking Chronicle**

PARS Environmental Services

Job No:

JC19412

WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Project No: 565-84

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
JC19412-1 MHE-01-16	Collected: 30-APR-16 ( 3-DW-B	07:17 By: JP	Receiv	ed: 30-APR-	16 By:	DG
JC19412-1	EPA 200.8	02-MAY-16 13:46	JO	02-MAY-16	5 JO	PBMS
JC19412-2 MHE-01-16	Collected: 30-APR-16 ( 4-DW-P	07:20 By: JP	Receiv	red: 30-APR-	16 By:	DG
JC19412-2	EPA 200.8	02-MAY-16 13:49	JO	02-MAY-16	5JO	PBMS
JC19412-3 MHE-01-16	Collected: 30-APR-16 (55-DW-P	07:24 By: JP	Receiv	red: 30-APR-	16 By:	DG
JC19412-3	EPA 200.8	02-MAY-16 13:53	JO	02-MAY-16	5 JO	PBMS
JC19412-4 MHE-01-16	Collected: 30-APR-16 (55-CF-P	07:24 By: JP	Receiv	ed: 30-APR-	16 By:	DG
JC19412-4	EPA 200.8	04-MAY-16 10:56	JO	03-MAY-16	5 JA	PBMS
JC19412-5 MHE-01-16	Collected: 30-APR-16 ( 6-DW-P	07:26 By: JP	Receiv	red: 30-APR-	16 By:	DG
JC19412-5	EPA 200.8	04-MAY-16 11:00	JO	03-MAY-16	JΑ	PBMS
JC19412-6 MHE-01-16	Collected: 30-APR-16 (77-CF-P	07:23 By: JP	Receiv	ed: 30-APR-	16 By:	DG
JC19412-6	EPA 200.8	02-MAY-16 15:13	JO	02-MAY-16	5 JO	PBMS
JC19412-7 MHE-01-16	Collected: 30-APR-16 ( 8-DW-P	07:33 By: JP	Receiv	red: 30-APR-	16 By:	DG
JC19412-7	EPA 200.8	02-MAY-16 14:13	JO	02-MAY-16	5 JO	PBMS
JC19412-8 MHE-01-01	Collected: 30-APR-16 ( -DW-P	07:11 By: JP	Receiv	red: 30-APR-	16 By:	DG
JC19412-8	EPA 200.8	02-MAY-16 14:16	JO	02-MAY-16	5 JO	PBMS

# **Internal Sample Tracking Chronicle**

PARS Environmental Services

Job No:

JC19412

WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Project No: 565-84

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
IC19412-9	Collected: 30-APR-16	07:39 By: IP	Receiv	ved: 30-APR-	16 Bv	DG
MHE-01-16		5,101	10001		10 2).	
JC19412-9	EPA 200.8	02-MAY-16 14:20	JO	02-MAY-16	5 JO	PBMS
JC19412-10 MHE-01-20	Collected: 30-APR-16 ( 2-DW-P	07:05 By: JP	Receiv	ved: 30-APR-	16 By:	DG
JC19412-10	EPA 200.8	02-MAY-16 14:23	JO	02-MAY-16	5 JO	PBMS
JC19412-11 MHE-01-21	Collected: 30-APR-16 (6-DW-P	07:08 By: JP	Receiv	ed: 30-APR-	16 By:	DG
JC19412-11	EPA 200.8	02-MAY-16 15:23	JO	02-MAY-16	5 JO	PBMS
JC19412-12 MHE-01-16	Collected: 30-APR-16 ( 0-DW-P	07:44 By: JP	Receiv	ed: 30-APR-	16 By:	DG
JC19412-12	EPA 200.8	02-MAY-16 15:03	JO	02-MAY-16	5 JO	PBMS
JC19412-13 MHE-01-17	Collected: 30-APR-16 (0-DW-B	07:40 By: JP	Receiv	ed: 30-APR-	16 By:	DG
JC19412-13	EPA 200.8	02-MAY-16 15:06	JO	02-MAY-16	5 JO	PBMS
JC19412-14 MHE-01-16	Collected: 30-APR-16 ( 2-DW-P	07:42 By: JP	Receiv	ed: 30-APR-	16 By:	DG
JC19412-14	EPA 200.8	02-MAY-16 15:10	JO	02-MAY-16	5 JO	PBMS

# **SGS Accutest Internal Chain of Custody**

**Job Number:** JC19412

**Account:** PARS PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

**Received:** 04/30/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19412-1.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage
JC19412-1.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-1.1 JC19412-1.1	Secured Staging Area	Jaclyn O'Connor		Retrieve from Storage
JC19412-1.1	Jaclyn O'Connor	Secured Storage		Return to Storage
JC19412-1.1 JC19412-1.1	Secured Storage	Dwayne Johnson		Retrieve from Storage
JC19412-1.1 JC19412-1.1	Dwayne Johnson	Secured Staging Area		Return to Storage
	Secured Staging Area	Lucas Schneider		Retrieve from Storage
JC19412-1.1 JC19412-1.1	Lucas Schneider	Secured Storage		Return to Storage
JC19412-2.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage
JC19412-2.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-2.1	Secured Staging Area	Jaclyn O'Connor		Retrieve from Storage
JC19412-2.1	Jaclyn O'Connor	Secured Storage		Return to Storage
JC19412-2.1	Secured Storage	Dwayne Johnson		Retrieve from Storage
JC19412-2.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-2.1	Secured Staging Area	Lucas Schneider		Retrieve from Storage
JC19412-2.1	Lucas Schneider	Secured Storage		Return to Storage
JC19412-3.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage
JC19412-3.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-3.1	Secured Staging Area	Jaclyn O'Connor	05/02/16 09:28	Retrieve from Storage
JC19412-3.1	Jaclyn O'Connor	Secured Storage	05/02/16 13:10	Return to Storage
JC19412-3.1	Secured Storage	Dwayne Johnson	05/02/16 13:18	Retrieve from Storage
JC19412-3.1	Dwayne Johnson	Secured Staging Area	05/02/16 13:19	Return to Storage
JC19412-3.1	Secured Staging Area	Lucas Schneider	05/02/16 15:32	Retrieve from Storage
JC19412-3.1	Lucas Schneider	Secured Storage	05/02/16 23:00	Return to Storage
JC19412-4.1	Secured Storage	Dwayne Johnson		Retrieve from Storage
JC19412-4.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-4.1	Secured Staging Area	Jaclyn O'Connor		Retrieve from Storage
JC19412-4.1	Jaclyn O'Connor	Secured Storage		Return to Storage
JC19412-4.1	Secured Storage	Dwayne Johnson		Retrieve from Storage
JC19412-4.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-4.1	Secured Staging Area	Lucas Schneider		Retrieve from Storage
JC19412-4.1	Lucas Schneider	Secured Storage		Return to Storage
JC19412-4.1	Secured Storage	Todd Shoemaker	05/03/16 08:46	Retrieve from Storage
JC19412-4.1	Todd Shoemaker	Jessica Adametz	05/03/16 08:48	Custody Transfer
JC19412-4.1	Jessica Adametz	Secured Storage	05/03/16 09:56	Return to Storage
JC19412-4.1.1	Jessica Adametz	Metals Digestion		Digestate from JC19412-4.1
JC19412-4.1.1	Metals Digestion	Jessica Adametz		Digestate from JC19412-4.1
JC19412-4.1.1	Jessica Adametz	Metals Digestate Storage	05/03/16 09:01	Return to Storage
JC19412-5.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage

# **SGS Accutest Internal Chain of Custody**

Job Number: JC19412

**Account:** PARS PARS Environmental Services

**Project:** WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Received: 04/30/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19412-5.1	Dwayne Johnson	Secured Staging Area	05/02/16 09:25	Return to Storage
JC19412-5.1	Secured Staging Area	Jaclyn O'Connor	05/02/16 09:28	Retrieve from Storage
JC19412-5.1	Jaclyn O'Connor	Secured Storage		Return to Storage
JC19412-5.1	Secured Storage	Dwayne Johnson		Retrieve from Storage
JC19412-5.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-5.1	Secured Staging Area	Lucas Schneider		Retrieve from Storage
JC19412-5.1	Lucas Schneider	Secured Storage		Return to Storage
JC19412-5.1	Secured Storage	Todd Shoemaker		Retrieve from Storage
JC19412-5.1	Todd Shoemaker	Jessica Adametz		Custody Transfer
JC19412-5.1	Jessica Adametz	Secured Storage	05/03/16 09:56	Return to Storage
JC19412-5.1.1	Jessica Adametz	Metals Digestion		Digestate from JC19412-5.1
JC19412-5.1.1	Metals Digestion	Jessica Adametz		Digestate from JC19412-5.1
JC19412-5.1.1	Jessica Adametz	Metals Digestate Storage	05/03/16 09:01	Return to Storage
JC19412-6.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage
JC19412-6.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-6.1	Secured Staging Area	Jaclyn O'Connor	05/02/16 09:28	Retrieve from Storage
JC19412-6.1	Jaclyn O' Connor	Secured Storage	05/02/16 13:10	Return to Storage
JC19412-6.1	Secured Storage	Dwayne Johnson	05/02/16 13:18	Retrieve from Storage
JC19412-6.1	Dwayne Johnson	Secured Staging Area	05/02/16 13:19	Return to Storage
JC19412-6.1	Secured Staging Area	Lucas Schneider	05/02/16 15:32	Retrieve from Storage
JC19412-6.1	Lucas Schneider	Secured Storage	05/02/16 23:00	Return to Storage
JC19412-7.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage
JC19412-7.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-7.1	Secured Staging Area	Jaclyn O'Connor		Retrieve from Storage
JC19412-7.1	Jaclyn O'Connor	Secured Storage		Return to Storage
JC19412-7.1	Secured Storage	Dwayne Johnson		Retrieve from Storage
JC19412-7.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-7.1	Secured Staging Area	Lucas Schneider	05/02/16 15:32	Retrieve from Storage
JC19412-7.1	Lucas Schneider	Secured Storage	05/02/16 23:00	Return to Storage
JC19412-8.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage
JC19412-8.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-8.1	Secured Staging Area	Jaclyn O'Connor		Retrieve from Storage
JC19412-8.1	Jaclyn O'Connor	Secured Storage		Return to Storage
JC19412-8.1	Secured Storage	Dwayne Johnson		Retrieve from Storage
JC19412-8.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-8.1	Secured Staging Area	Lucas Schneider		Retrieve from Storage
JC19412-8.1	Lucas Schneider	Secured Storage		Return to Storage
JC19412-9.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage
JC19412-9.1	Dwayne Johnson	Secured Staging Area		Return to Storage

# **SGS Accutest Internal Chain of Custody**

**Job Number:** JC19412

**Account:** PARS PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

**Received:** 04/30/16

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19412-9.1	Secured Staging Area	Jaclyn O'Connor		Retrieve from Storage
JC19412-9.1	Jaclyn O'Connor	Secured Storage		Return to Storage
JC19412-9.1	Secured Storage	Dwayne Johnson		Retrieve from Storage
JC19412-9.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-9.1	Secured Staging Area	Lucas Schneider		Retrieve from Storage
JC19412-9.1	Lucas Schneider	Secured Storage	05/02/16 23:00	Return to Storage
JC19412-10.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage
JC19412-10.1	Dwayne Johnson	Secured Staging Area	05/02/16 09:25	Return to Storage
JC19412-10.1	Secured Staging Area	Jaclyn O' Connor	05/02/16 09:28	Retrieve from Storage
JC19412-10.1	Jaclyn O'Connor	Secured Storage	05/02/16 13:10	Return to Storage
JC19412-10.1	Secured Storage	Dwayne Johnson		Retrieve from Storage
JC19412-10.1	Dwayne Johnson	Secured Staging Area	05/02/16 13:19	Return to Storage
JC19412-10.1	Secured Staging Area	Lucas Schneider	05/02/16 15:32	Retrieve from Storage
JC19412-10.1	Lucas Schneider	Secured Storage		Return to Storage
JC19412-11.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage
JC19412-11.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-11.1	Secured Staging Area	Jaclyn O'Connor		Retrieve from Storage
JC19412-11.1	Jaclyn O'Connor	Secured Storage		Return to Storage
JC19412-11.1	Secured Storage	Dwayne Johnson		Retrieve from Storage
JC19412-11.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-11.1	Secured Staging Area	Lucas Schneider		Retrieve from Storage
JC19412-11.1	Lucas Schneider	Secured Storage		Return to Storage
JC19412-12.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage
JC19412-12.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-12.1	Secured Staging Area	Jaclyn O' Connor		Retrieve from Storage
JC19412-12.1	Jaclyn O'Connor	Secured Storage		Return to Storage
JC19412-12.1	Secured Storage	Dwayne Johnson		Retrieve from Storage
JC19412-12.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-12.1	Secured Staging Area	Lucas Schneider		Retrieve from Storage
JC19412-12.1	Lucas Schneider	Secured Storage		Return to Storage
JC19412-13.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage
JC19412-13.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-13.1	Secured Staging Area	Jaclyn O'Connor		Retrieve from Storage
JC19412-13.1	Jaclyn O'Connor	Secured Storage		Return to Storage
JC19412-13.1	Secured Storage	Dwayne Johnson		Retrieve from Storage
JC19412-13.1	Dwayne Johnson	Secured Staging Area		Return to Storage
JC19412-13.1	Secured Staging Area	Lucas Schneider		Retrieve from Storage
JC19412-13.1	Lucas Schneider	Secured Storage		Return to Storage
JC19412-14.1	Secured Storage	Dwayne Johnson	05/02/16 09:25	Retrieve from Storage

Page 4 of 4

# **SGS Accutest Internal Chain of Custody**

**Job Number:** JC19412

**Account:** PARS PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

**Received:** 04/30/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19412-14.1	Dwayne Johnson	Secured Staging Area	05/02/16 09:25	Return to Storage
JC19412-14.1	Secured Staging Area	Jaclyn O'Connor	05/02/16 09:28	Retrieve from Storage
JC19412-14.1	Jaclyn O'Connor	Secured Storage	05/02/16 13:10	Return to Storage
JC19412-14.1	Secured Storage	Dwayne Johnson	05/02/16 13:18	Retrieve from Storage
JC19412-14.1	Dwayne Johnson	Secured Staging Area	05/02/16 13:19	Return to Storage
JC19412-14.1	Secured Staging Area	Lucas Schneider	05/02/16 15:32	Retrieve from Storage
JC19412-14.1	Lucas Schneider	Secured Storage	05/02/16 23:00	Return to Storage



Section 6

## Metals Analysis

## QC Data Summaries

### Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- · High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV Analyst: JO

Parameters: Pb

Date Analyzed: 04/28/16 Run ID: MA39289

Methods: EPA 200.8

Time	Sample Description	Dilution PS Factor Recov	Comments
09:53	MA39289-STD1	1	STDA
09:56	MA39289-STD2	1	STDA
09:59	MA39289-STD3	1	STDA
10:03	MA39289-STD4	1	STDB1
10:06	MA39289-STD5	1	STDB
10:09	MA39289-STD6	1	STDC
10:12	MA39289-STD7	1	STDD
10:16	MA39289-STD8	1	STDE
10:19	MA39289-STD9	1	STDF
10:22	MA39289-STD10	1	STDG
10:25	MA39289-STD11	1	STDH
10:29	MA39289-STD12	1	STDI
10:32	MA39289-STD13	1	STDJ
10:36	ZZZZZZ	1	
10:39	MA39289-ICVA1	1	
10:42	MA39289-ICV1	1	Al 60
10:46	MA39289-ICB1	1	
10:49	MA39289-CRIA1	1	
10:52	MA39289-CRI1	1	
10:55	MA39289-CCVA1	1	
10:59	MA39289-CCB1	1	
11:09	MP93322-MB2	1	
11:12	MP93322-B2	1	
11:15	MP93322-B2	2	Ag
11:18	ZZZZZZ	2	
11:22	ZZZZZZ	2	
11:25	ZZZZZZ	10	
11:28	ZZZZZZ	5	
11:32	ZZZZZZ	1	
11:47	ZZZZZZ	1	
11:50	MA39289-CCVA2	1	
11:54	MA39289-CCB2	1	
11:57	MP93338-MB2	1	

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Methods: EPA 200.8

Date Analyzed: 04/28/16

File ID: XB042816W1.CSV Analyst: JO Run ID: MA39289 Parameters: Pb

Time	Sample Description	Dilution PS Factor Recov	Comments
12:00	MP93338-B2	1	
12:03	ZZZZZZ	1	
12:07	ZZZZZZ	1	
12:10	ZZZZZZ	1	
12:13	ZZZZZZ	1	
12:17	ZZZZZZ	1	
12:20	ZZZZZZ	1	
12:23	JC18908-4	1	(sample used for QC only; not part of login JC19412)
12:27	MA39289-CCVA3	1	
12:30	MA39289-CCB3	1	
12:33	ZZZZZZ	1	
12:37	ZZZZZZ	1	
12:40	ZZZZZZ	1	
12:44	ZZZZZZ	1	
12:47	ZZZZZZ	1	
12:50	ZZZZZZ	1	
12:54	ZZZZZZ	1	
12:57	ZZZZZZ	1	
13:03	ZZZZZZ	1	
13:15	ZZZZZZ	1	
13:18	MA39289-CCVA4	1	
13:23	MA39289-CCB4	1	
13:27	ZZZZZZ	1	
13:42	ZZZZZZ	1	
13:45	ZZZZZZ	1	
13:49	ZZZZZZ	1	
13:52	MA39289-CCVA5	1	
13:55	MA39289-CCB5	1	
13:59	MP93339-MB2	1	
14:02	MP93339-B2	1	
14:05	MP93339-S1	1	
14:08	MP93339-S2	1	
14:12	ZZZZZZ	1	

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Methods: EPA 200.8

Parameters: Pb

File ID: XB042816W1.CSV Analyst: JO Date Analyzed: 04/28/16 Run ID: MA39289

	Time	Sample Description	Dilution I		Comments
	14:15	JC18886-1	1		(sample used for QC only; not part of login JC19412)
	14:18	ZZZZZZ	1		
	14:22	ZZZZZZ	1		
	14:25	ZZZZZZ	1		
	14:29	MA39289-CCVA6	1		
	14:32	MA39289-CCB6	1		
	14:35	ZZZZZZ	1		
	14:39	ZZZZZZ	10		
	14:42	ZZZZZZ	1		
	14:45	ZZZZZZ	1		
	14:49	ZZZZZZ	1		
	14:52	ZZZZZZ	1		
	14:56	ZZZZZZ	1		
	14:59	ZZZZZZ	1		
	15:02	MA39289-CCVA7	1		
	15:05	MA39289-CCB7	1		As out
	15:09	MP93360-MB1	1		
	15:12	MP93360-B1	1		
	15:15	MP93360-S1	1		
>	Last r	MP93360-S2 eportable sample ZZZZZZ	1 /prep for :	job JC194	412
	15:25	JC18908-1	1		(sample used for QC only; not part of login JC19412)
	15:29	MA39289-CCVA8	1		
>	Last r	MA39289-CCB8 eportable CCB fo MP93338-S1			As out
	15:39	MP93338-S2	1		
	15:42	ZZZZZZ	1		
	15:45	MA39289-CCVA9	1		
	15:49	MA39289-CCB9	1		As out
	20:10	MA39289-CCVA10	1		
	20:13	MA39289-CCB10	1		As out
	20:16	MP93420-MB1	1		
	20:19	MP93420-B1	1		

### Login Number: JC19412

Date Analyzed: 04/28/16

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Methods: EPA 200.8

File ID: XB042816W1.CSV

Run ID: MA39289

Analyst: JO Parameters: Pb

Time	Sample Description	Dilution Factor	Comments
20:23	MP93420-S1	1	
20:26	MP93420-S2	1	
20:29	ZZZZZZ	1	
20:32	JC19275-1	1	(sample used for QC only; not part of login JC19412)
20:36	ZZZZZZ	1	
20:39	ZZZZZZ	1	
20:42	ZZZZZZ	1	
20:46	ZZZZZZ	1	
20:49	MA39289-CCVA11	1	
20:52	MA39289-CCB11	1	As out

Refer to raw data for calibration curve and standards.

# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV Analyst: JO

Date Analyzed: 04/28/16 Methods: EPA 200.8 Run ID: MA39289

	lyst: JO ameters: Pb			Run II	): MA39289				
Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
09:53	MA39289-STD1	100	100	100	100	100	100	100	100
09:56	MA39289-STD2	100	100	100	100	100	100	100	100
09:59	MA39289-STD3	100	100	100	100	100	100	100	100
10:03	MA39289-STD4	98.346	99.362	99.97	99.794	98.55	99.867	99.65	99.815
10:06	MA39289-STD5	98.472	98.118	98.218	99.927	98.255	99.082	100.434	100.181
10:09	MA39289-STD6	98.218	98.402	98.371	98.93	98.51	99.238	100.765	100.16
10:12	MA39289-STD7	96.63	98.028	98.34	99.921	98.409	99.583	99.849	100.044
10:16	MA39289-STD8	97.102	96.479	97.03	98.279	97.807	98.721	100.49	100.998
10:19	MA39289-STD9	96.951	96.109	97.017	98.528	98.237	99.166	101.273	101.253
10:22	MA39289-STD10	95.753	96.963	97.116	98.167	97.377	99.028	100.571	100.662
10:25	MA39289-STD11	96.438	96.059	96.398	97.124	97.03	99.075	100.993	100.723
10:29	MA39289-STD12	95.098	95.647	96.619	96.611	95.152	98.093	101.277	102.006
10:32	MA39289-STD13	93.895	96.221	98.724	97.309	95.54	97.744	101.299	101.813
10:36	ZZZZZZ	No result	s reported	for the e	elements as	sociated w	ith this i	internal st	andard.
10:39	MA39289-ICVA1	94.34	96.649	98.106	98.11	96.933	99.777	102.76	103.111
10:42	MA39289-ICV1	95.697	96.64	96.06	98.103	99.381	100.042	101.725	101.952
10:46	MA39289-ICB1	95.351	96.624	96.207	98.436	98.739	101.184	101.872	102.042
10:49	MA39289-CRIA1	95.579	97.798	97.46	99.407	99.645	101.458	101.766	102.291
10:52	MA39289-CRI1	94.523	97.277	97.244	99.057	98.74	99.841	101.301	101.628
10:55	MA39289-CCVA1	94.218	96.236	97.579	98.512	97.081	99.521	103.051	103.837
10:59	MA39289-CCB1	95.447	97.562	96.536	98.908	100.521	101.527	103.724	103.4
11:09	MP93322-MB2	96.185	97.921	96.913	99.505	100.941	101.519	103.203	102.667
11:12	MP93322-B2	94.563	98.229	98.183	99.373	99.478	101.033	103.937	103.727
11:15	MP93322-B2	92.988	94.677	95.997	98.461	97.511	99.211	102.128	102.12
11:18	ZZZZZZ	92.161	96.518	96.86	99.291	98.264	101.538	103.357	103.719
11:22	ZZZZZZ	87.664	93.233	93.026	95.733	93.11	97.246	100.394	101.135
11:25	ZZZZZZ	94.423	98.779	98.873	100.882	100.602	101.848	104.182	103.835
11:28	ZZZZZZ	93.364	96.567	96.947	98.794	99.994	100.087	102.218	102.789
11:32	ZZZZZZ	91.245	94.477	94.32	96.49	97.753	99.7	101.31	101.922
11:47	ZZZZZZ	No result	s reported	for the e	elements as	sociated w	ith this i	internal st	andard.
11:50	MA39289-CCVA2	91	91.926	93.515	95.02	93.76	96.711	100.098	100.73
11:54	MA39289-CCB2	91.198	92.119	91.661	94.322	95.396	97.857	98.991	99.095
11:57	MP93338-MB2	90.736	92.223	92.095	94.788	95.612	96.485	99.823	99.838

# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV Analyst: JO Date Analyzed: 04/28/16 Methods: EPA 200.8 Run ID: MA39289

Time	Sample Description	Istd#1 Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7 Istd#8
12:00	MP93338-B2	91.194 92.436	93.316	95.853	95.629	98.058	101.317 101.069
12:03	ZZZZZZ	No results reporte	d for the e	lements a	associated	with this	internal standard.
12:07	ZZZZZZ	No results reporte	d for the e	lements a	associated	with this	internal standard.
12:10	ZZZZZZ	No results reporte	d for the e	lements a	associated	with this	internal standard.
12:13	ZZZZZZ	86.57 91.264	90.294	93.073	91.087	96.196	100.044 99.29
12:17	ZZZZZZ	87.661 90.608	90.008	91.941	90.098	94.991	98.907 99.977
12:20	ZZZZZZ	90.148 93.978	93.031	95.916	94.95	98.572	102.645 103.553
12:23	JC18908-4	93.045 98.432	98.444	101.365	99.024	103.973	107.993 109.539
12:27	MA39289-CCVA3	93.421 96.074	99.27	100.319	100.474	104.065	109.709 110.707
12:30	MA39289-CCB3	92.03 96.567	97.686	99.546	102.327	104.589	107.378 107.616
12:33	ZZZZZZ	95.838 103.886	104.324	107.63	104.021	108.772	113.427 114.335
12:37	ZZZZZZ	96.396 103.706	104.052	106.919	104.951	109.555	114.759 115.46
12:40	ZZZZZZ	93.484 98.856	99.458	103.136	99.773	105.866	110.36 110.744
12:44	ZZZZZZ	94.12 99.892	100.897	103.992	100.486	105.782	111.191 112.422
12:47	ZZZZZZ	90.458 94.132	94.294	96.775	94.662	99.68	104.526 104.639
12:50	ZZZZZZ	89.31 94.53	93.549	96.643	94.473	99.161	103.237 104.011
12:54	ZZZZZZ	No results reporte	d for the e	lements a	associated	with this	internal standard.
12:57	ZZZZZZ	No results reporte	d for the e	lements a	associated	with this	internal standard.
13:03	ZZZZZZ	83.438 87.267	86.958	89.149	86.252	91.139	93.902 94.288
13:15	ZZZZZZ	No results reporte	d for the e	lements a	associated	with this	internal standard.
13:18	MA39289-CCVA4	84.758 85.594	87.037	88.12	87.88	90.374	96.172 96.9
13:23	MA39289-CCB4	86.61 89.205	88.76	90.538	92.345	93.307	94.729 95.226
13:27	ZZZZZZ	No results reporte	d for the e	lements a	associated	with this	internal standard.
13:42	ZZZZZZ	No results reporte	d for the e	lements a	associated	with this	internal standard.
13:45	ZZZZZZ	85.876 92.884	92.287	95.658	91.863	97.115	101.429 101.861
13:49	ZZZZZZ	No results reporte	d for the e	lements a	associated	with this	internal standard.
13:52	MA39289-CCVA5	86.268 90.103	92.248	92.696	92.947	95.391	100.649 101.249
13:55	MA39289-CCB5	90.261 96.573	96.038	98.592	100.074	100.802	103.15 103.356
13:59	MP93339-MB2	89.838 95.575	96.2	98.493	98.609	100.241	101.859 101.592
14:02	MP93339-B2	89.279 95.781	95.995	98.541	98.94	100.475	104.076 103.999
14:05	MP93339-S1	86.211 96.008	95.519	98.303	96.013	99.894	105.127 106.375
14:08	MP93339-S2	85.796 96.3	97.336	99.866	96.636	100.151	105.226 105.824
14:12	ZZZZZZ	No results reporte	d for the e	lements a	associated	with this	internal standard.

# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV Analyst: JO

Parameters: Pb

Run ID: MA39289

Date Analyzed: 04/28/16 Methods: EPA 200.8

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
14:15	JC18886-1	88.227	98.243	97.228	101.151	97.061	100.029	103.744	104.07
14:18	ZZZZZZ	82.991	90.82	89.03	92.236	88.42	91.771	95.451	95.708
14:22	ZZZZZZ	79.648	84.001	82.482	85.405	83.206	86.641	91.052	91.289
14:25	ZZZZZZ	79.601	83.336	83.37	86.189	83.077	86.843	91.949	92.374
14:29	MA39289-CCVA6	79.162	78.283	81.543	81.171	80.994	83.398	88.352	88.917
14:32	MA39289-CCB6	81.409	83.569	84.864	86.13	86.843	87.337	89.474	90.057
14:35	ZZZZZZ	80.57	86.995	85.643	88.503	85.561	89.777	93.11	93.741
14:39	ZZZZZZ	83.315	85.874	86.651	88.502	88.097	89.338	91.643	91.83
14:42	ZZZZZZ	84.042	89.769	89.832	92.303	88.048	92.505	95.994	96.536
14:45	ZZZZZZ	77.877	81.633	81.732	83.704	81.462	84.868	89.155	89.273
14:49	ZZZZZZ	75.591	80.287	79.415	81.874	78.119	81.294	84.507	84.906
14:52	ZZZZZZ	73.35	76.129	74.655	76.904	74.352	77.544	80.892	81.426
14:56	ZZZZZZ	75.232	78.508	76.781	79.171	76.015	79.232	82.279	83.747
14:59	ZZZZZZ	No result	s reported	for the e	lements as	sociated w	ith this i	nternal st	andard.
15:02	MA39289-CCVA7	73.461	73.606	75.419	75.822	74.312	75.769	78.527	79.159
15:05	MA39289-CCB7	74.036	77.341	76.724	78.658	78.301	77.651	78.28	78.247
15:09	MP93360-MB1	74.949	77.14	77.24	78.644	77.438	77.575	78.456	78.197
15:12	MP93360-B1	73.94	76.495	75.951	77.353	76.1	76.282	78.344	78.268
15:15	MP93360-S1	71.585	74.33	74.915	76.824	73.186	75.349	77.676	78.477
15:19	MP93360-S2	79.052	86.305	87.104	88.911	84.726	86.127	89.056	90.278
15:22	ZZZZZZ	No result	s reported	for the e	lements as	sociated w	ith this i	nternal st	andard.
15:25	JC18908-1	79.892	88.6	88.402	90.38	86.667	88.999	91.137	92.122
15:29	MA39289-CCVA8	73.35	75.939	76.611	77.311	75.653	77.139	79.277	79.395
15:32	MA39289-CCB8	73.88	76.563	76.66	78.574	77.75	77.41	78.73	78.393
15:35	MP93338-S1	78.382	86.19	85.591	88.663	83.741	85.32	88.339	88.35
15:39	MP93338-S2	73.351	78.72	79.01	81.297	77.443	79.51	83.248	83.648
15:42	ZZZZZZ	No result	s reported	for the e	lements as	sociated w	ith this i	nternal st	andard.
15:45	MA39289-CCVA9	73.452	74.424	76.003	76.624	75.424	76.876	80.588	80.729
15:49	MA39289-CCB9	73.706	76.091	75.348	77.693	77.362	78.116	78.863	79.894
20:10	MA39289-CCVA10	66.994	70.939	72.986	73.929	72.841	74.29	77.624	78.006
20:13	MA39289-CCB10	67.052	70.447	72.44	73.901	73.934	74.626	77.529	77.801
20:16	MP93420-MB1	67.555	71.415	72.626	74.32	74.631	75.372	77.106	76.99
20:19	MP93420-B1	66.715	71.793	73.663	75.189	73.796	75.035	78.415	79.015

# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV Date Analyzed: 04/28/16 Methods: EPA 200.8 Run ID: MA39289

Analyst: JO Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8	
20:23	MP93420-S1	61.978	69.153	70.582	72.54	70.48	72.978	79.096	78.989	
20:26	MP93420-S2	60.546	67.899	69.018	71.151	69.094	72.667	77.552	78.425	
20:29	ZZZZZZ	No result	s reported	for the	elements	associated	with this	internal	standard.	
20:32	JC19275-1	62.43	70.671	72.54	74.545	71.793	75.382	79.715	80.332	
20:36	ZZZZZZ	60.903	68.985	70.43	71.969	69.857	73.125	77.328	78.103	
20:39	ZZZZZZ	60.084	68.375	68.766	72.334	69.578	72.358	76.947	77.615	
20:42	ZZZZZZ	59.476 !a	66.627	68.197	70.645	68.311	71.526	75.994	76.406	
20:46	ZZZZZZ	59.701 !a	67.797	68.466	71.056	68.575	71.787	76.221	76.444	
20:49	MA39289-CCVA11	64.108	68.256	70.763	71.634	70.514	71.889	76.257	76.66	
20:52	MA39289-CCB11	63.961	67.24	69.457	70.926	72.388	73.058	75.208	74.97	

#### ! = Outside limits.

#### LEGEND:

Istd#	Parameter	Limits
Istd#1	Lithium	60-125 %
Istd#2	Scandium	60-125 %
Istd#3	Germanium (72-1)	60-125 %
Istd#4	Germanium (74-1)	60-125 %
Istd#5	Rhodium	60-125 %
Istd#6	Indium	60-125 %
Istd#7	Terbium	60-125 %
Istd#8	Holmium	60-125 %

(a) No samples reported for the elements associated with this internal standard.

ACCUTEST

# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV Date Analyzed: 04/28/16 Methods: EPA 200.8 Analyst: JO Run ID: MA39289

	meters. PD	
Time	Sample Description	Istd#9
09:53	MA39289-STD1	100
09:56	MA39289-STD2	100
09:59	MA39289-STD3	100
10:03	MA39289-STD4	99.761
10:06	MA39289-STD5	100.991
10:09	MA39289-STD6	101.684
10:12	MA39289-STD7	101.334
10:16	MA39289-STD8	102.62
10:19	MA39289-STD9	103.155
10:22	MA39289-STD10	100.854
10:25	MA39289-STD11	101.525
10:29	MA39289-STD12	100.527
10:32	MA39289-STD13	98.854
10:36	ZZZZZZ	No results reported for the elements associated with this internal standard.
10:39	MA39289-ICVA1	101.144
10:42	MA39289-ICV1	102.664
10:46	MA39289-ICB1	102.812
10:49	MA39289-CRIA1	103.619
10:52	MA39289-CRI1	102.786
10:55	MA39289-CCVA1	102.765
10:59	MA39289-CCB1	104.494
11:09	MP93322-MB2	104.009
11:12	MP93322-B2	103.673
11:15	MP93322-B2	102.531
11:18	ZZZZZZ	103.442
11:22	ZZZZZZ	100.684
11:25	ZZZZZZ	104.078
11:28	ZZZZZZ	103.301
11:32	ZZZZZZ	104.366
11:47	ZZZZZZ	No results reported for the elements associated with this internal standard.
11:50	MA39289-CCVA2	100.48
11:54	MA39289-CCB2	100.144
11:57	MP93338-MB2	99.935

# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV Analyst: JO Date Analyzed: 04/28/16 Methods: EPA 200.8 Run ID: MA39289

Time	Sample Description	Istd#9
12:00	MP93338-B2	102.048
12:03	ZZZZZZ	No results reported for the elements associated with this internal standard.
12:07	ZZZZZZ	No results reported for the elements associated with this internal standard.
12:10	ZZZZZZ	No results reported for the elements associated with this internal standard.
12:13	ZZZZZZ	96.22
12:17	ZZZZZZ	96.165
12:20	ZZZZZZ	100.36
12:23	JC18908-4	105.438
12:27	MA39289-CCVA3	112.928
12:30	MA39289-CCB3	108.781
12:33	ZZZZZZ	109.95
12:37	ZZZZZZ	112.119
12:40	ZZZZZZ	109.141
12:44	ZZZZZZ	109.182
12:47	ZZZZZZ	101.694
12:50	ZZZZZZ	100.821
12:54	ZZZZZZ	No results reported for the elements associated with this internal standard.
12:57	ZZZZZZ	No results reported for the elements associated with this internal standard.
13:03	ZZZZZZ	91.483
13:15	ZZZZZZ	No results reported for the elements associated with this internal standard.
13:18	MA39289-CCVA4	96.577
13:23	MA39289-CCB4	96.149
13:27	ZZZZZZ	No results reported for the elements associated with this internal standard.
13:42	ZZZZZZ	No results reported for the elements associated with this internal standard.
13:45	ZZZZZZ	98.231
13:49	ZZZZZZ	No results reported for the elements associated with this internal standard.
13:52	MA39289-CCVA5	100.907
13:55	MA39289-CCB5	105.072
13:59	MP93339-MB2	102.937
14:02	MP93339-B2	104.889
14:05	MP93339-S1	102.187
14:08	MP93339-S2	101.995
14:12	ZZZZZZ	No results reported for the elements associated with this internal standard.

# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV Analyst: JO Date Analyzed: 04/28/16 Methods: EPA 200.8 Run ID: MA39289

Pala	meters: Pb	
Time	Sample Description	Istd#9
14:15	JC18886-1	101.534
14:18	ZZZZZZ	92.28
14:22	ZZZZZZ	88.214
14:25	ZZZZZZ	89.784
14:29	MA39289-CCVA6	90.418
14:32	MA39289-CCB6	90.519
14:35	ZZZZZZ	89.782
14:39	ZZZZZZ	92.988
14:42	ZZZZZZ	93.491
14:45	ZZZZZZ	87.34
14:49	ZZZZZZ	81.32
14:52	ZZZZZZ	78.118
14:56	ZZZZZZ	79.447
14:59	ZZZZZZ	No results reported for the elements associated with this internal standard.
15:02	MA39289-CCVA7	78.718
15:05	MA39289-CCB7	79.43
15:09	MP93360-MB1	79.506
15:12	MP93360-B1	79.291
15:15	MP93360-S1	75.891
15:19	MP93360-S2	86.968
15:22	ZZZZZZ	No results reported for the elements associated with this internal standard.
15:25	JC18908-1	89.58
15:29	MA39289-CCVA8	79.586
15:32	MA39289-CCB8	79.427
15:35	MP93338-S1	85.659
15:39	MP93338-S2	81.06
15:42	ZZZZZZ	No results reported for the elements associated with this internal standard.
15:45	MA39289-CCVA9	80.474
15:49	MA39289-CCB9	80.616
20:10	MA39289-CCVA10	79.09
20:13	MA39289-CCB10	79.396
20:16	MP93420-MB1	79.081
20:19	MP93420-B1	80.163

# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Date Analyzed: 04/28/16 Methods: EPA 200.8 File ID: XB042816W1.CSV Run ID: MA39289

Analyst: JO
Parameters: Ph

Para	meters: Pb	
Time	Sample Description	Istd#9
20:23	MP93420-S1	79.359
20:26	MP93420-S2	78.334
20:29	ZZZZZZ	No results reported for the elements associated with this internal standard.
20:32	JC19275-1	80.505
20:36	ZZZZZZ	79.127
20:39	ZZZZZZ	77.409
20:42	ZZZZZZ	76.709
20:46	ZZZZZZ	77.019
20:49	MA39289-CCVA11	77.082
20:52	MA39289-CCB11	78.198

! = Outside limits.

LEGEND:

Istd#ParameterLimitsIstd#9Bismuth60-125 %

**ACCUTEST** 

# BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV QC Limits: result < RL Date Analyzed: 04/28/16 Run ID: MA39289

Methods: EPA 200.8 Units: ug/l

Q0 21105 10.				11411 1			011200 43	,, -		
Time:			10:46		10:59		11:54		12:30	
Sample ID: Metal	RL	IDL	ICB1 raw	final	CCB1 raw	final	CCB2 raw	final	CCB3 raw	final
Aluminum	50	.1	anr							
Antimony	2.0	.12	anr							
Arsenic	1.0	.38	anr							
Barium	1.0	.011	anr							
Beryllium	0.30	.004	anr							
Boron	50	3.2								
Cadmium	0.50	.008	anr							
Calcium	250	2.7	anr							
Chromium	4.0	.019	anr							
Cobalt	0.50	.003								
Copper	4.0	.02	anr							
Iron	50	1.1	anr							
Lead	0.50	.009	0.0044	<0.50	0.013	<0.50	0.015	<0.50	0.027	<0.50
Magnesium	250	.17	anr							
Manganese	1.0	.019	anr							
Molybdenum	1.0	.02	anr							
Nickel	4.0	.028	anr							
Potassium	250	2	anr							
Selenium	1.0	. 29	anr							
Silver	2.0	.019	anr							
Sodium	250	3.9	anr							
Strontium	1.0	.009								
Thallium	0.50	.016	anr							
Tin	1.0	.039								
Titanium	1.0	.034								
Vanadium	4.0	.11	anr							
Zinc	10	.29	anr							

(\*) Outside of QC limits (anr) Analyte not requested

SGS 46 of 90 ACCUTEST

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV QC Limits: result < RL

Date Analyzed: 04/28/16 Run ID: MA39289

Methods: EPA 200.8 Units: ug/l

Time: Sample ID:			13:23 CCB4		13:55 CCB5		14:32 CCB6		15:05 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	50	.1	anr							
Antimony	2.0	.12	anr							
Arsenic	1.0	.38	anr							
Barium	1.0	.011	anr							
Beryllium	0.30	.004	anr							
Boron	50	3.2								
Cadmium	0.50	.008	anr							
Calcium	250	2.7	anr							
Chromium	4.0	.019	anr							
Cobalt	0.50	.003								
Copper	4.0	.02	anr							
Iron	50	1.1	anr							
Lead	0.50	.009	0.022	<0.50	0.030	<0.50	0.036	<0.50	0.028	<0.50
Magnesium	250	.17	anr							
Manganese	1.0	.019	anr							
Molybdenum	1.0	.02	anr							
Nickel	4.0	.028	anr							
Potassium	250	2	anr							
Selenium	1.0	. 29	anr							
Silver	2.0	.019	anr							
Sodium	250	3.9	anr							
Strontium	1.0	.009								
Thallium	0.50	.016	anr							
Tin	1.0	.039								
Titanium	1.0	.034								
Vanadium	4.0	.11	anr							
Zinc	10	.29	anr							

(\*) Outside of QC limits (anr) Analyte not requested

SGS ACCUTEST

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV QC Limits: result < RL

Date Analyzed: 04/28/16 Methods: EPA 200.8 Run ID: MA39289

Units: ug/l

Q0 21100 10	Dure - 10			11011 1
Time:			15:32	
Sample ID: Metal	RL	IDL	CCB8 raw	final
Aluminum	50	.1	anr	
Antimony	2.0	.12	anr	
Arsenic	1.0	.38	anr	
Barium	1.0	.011	anr	
Beryllium	0.30	.004	anr	
Boron	50	3.2		
Cadmium	0.50	.008	anr	
Calcium	250	2.7	anr	
Chromium	4.0	.019	anr	
Cobalt	0.50	.003		
Copper	4.0	.02	anr	
Iron	50	1.1	anr	
Lead	0.50	.009	0.037	<0.50
Magnesium	250	.17	anr	
Manganese	1.0	.019	anr	
Molybdenum	1.0	.02	anr	
Nickel	4.0	.028	anr	
Potassium	250	2	anr	
Selenium	1.0	. 29	anr	
Silver	2.0	.019	anr	
Sodium	250	3.9	anr	
Strontium	1.0	.009		
Thallium	0.50	.016	anr	
Tin	1.0	.039		
Titanium	1.0	.034		
Vanadium	4.0	.11	anr	
Zinc	10	.29	anr	

(\*) Outside of QC limits (anr) Analyte not requested

SGS ACCUTEST

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/28/16 Run ID: MA39289

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal		10:39 ICVA1 Results	% Rec	ICV True	10:42 ICV1 Results	% Rec	CCVA True	10:55 CCVA1 Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	60	57.8	96.3				50	49.6	99.2
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(\*) Outside of QC limits (anr) Analyte not requested

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/28/16 Run ID: MA39289

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	CCVA True	11:50 CCVA2 Results	% Rec	CCVA True	12:27 CCVA3 Results	% Rec	CCVA True	13:18 CCVA4 Results	% Rec	
Aluminum	anr									
Antimony	anr									
Arsenic	anr									
Barium	anr									
Beryllium	anr									
Boron										
Cadmium	anr									
Calcium	anr									
Chromium	anr									
Cobalt										
Copper	anr									
Iron	anr									
Lead	50	49.7	99.4	50	49.3	98.6	50	49.8	99.6	
Magnesium	anr									
Manganese	anr									
Molybdenum	anr									
Nickel	anr									
Potassium	anr									
Selenium	anr									
Silver	anr									
Sodium	anr									
Strontium										
Thallium	anr									
Tin										
Titanium										
Vanadium	anr									
Zinc	anr									

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/28/16 Run ID: MA39289

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal		13:52 CCVA5 Results	% Rec	CCVA True	14:29 CCVA6 Results	% Rec	CCVA True	15:02 CCVA7 Results	% Rec	
Aluminum	anr									
Antimony	anr									
Arsenic	anr									
Barium	anr									
Beryllium	anr									
Boron										
Cadmium	anr									
Calcium	anr									
Chromium	anr									
Cobalt										
Copper	anr									
Iron	anr									
Lead	50	49.1	98.2	50	49.8	99.6	50	49.2	98.4	
Magnesium	anr									
Manganese	anr									
Molybdenum	anr									
Nickel	anr									
Potassium	anr									
Selenium	anr									
Silver	anr									
Sodium	anr									
Strontium										
Thallium	anr									
Tin										
Titanium										
Vanadium	anr									
Zinc	anr									

(\*) Outside of QC limits (anr) Analyte not requested

SGS ACCUTEST

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/28/16 Run ID: MA39289

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	CCVA True	15:29 CCVA8 Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Boron			
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt			
Copper	anr		
Iron	anr		
Lead	50	48.9	97.8
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(\*) Outside of QC limits (anr) Analyte not requested

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB042816W1.CSV QC Limits: 70 to 130 % Recovery Date Analyzed: 04/28/16 Run ID: MA39289

Methods: EPA 200.8 Units: ug/l

Time: Sample ID:		CRIA	10:49 CRIA1		10:52 CRI1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	25	25				
Antimony	2.0	0.25				
Arsenic	0.50	0.50	anr			
Barium	1.0	0.50				
Beryllium	0.50	0.25	anr			
Boron	25	2.5				
Cadmium	0.50	0.25				
Calcium	250	125				
Chromium	1.0	2.0				
Cobalt	0.50	0.25				
Copper	2.0	2.0				
Iron	25	25				
Lead	0.50	0.25			0.51	102.0
Magnesium	250	125				
Manganese	0.50	0.25				
Molybdenum	1.0	0.50				
Nickel	1.0	2.0				
Potassium	250	125				
Selenium	0.50	0.50	anr			
Silver	0.50	1.0				
Sodium	250	125				
Strontium	5.0	0.50				
Thallium	0.50	0.25				
Tin	5.0	0.50				
Titanium	1.0	0.50				
Vanadium	1.0	2.0				
Zinc	5.0	2.0				

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Methods: EPA 200.8

File ID: XB050216W2.CSV Analyst: JO

Parameters: Pb

Date Analyzed: 05/02/16

Run ID: MA39312

Time		Dilution PS Factor Recov	Comments
11:13	MA39312-STD1	1	STDA
11:16	MA39312-STD2	1	STDA
11:19	MA39312-STD3	1	STDA
11:22	MA39312-STD4	1	STDB1
11:26	MA39312-STD5	1	STDB
11:29	MA39312-STD6	1	STDC
11:32	MA39312-STD7	1	STDD
11:35	MA39312-STD8	1	STDE
11:39	MA39312-STD9	1	STDF
11:42	MA39312-STD10	1	STDG
11:45	MA39312-STD11	1	STDH
11:48	MA39312-STD12	1	STDI
11:52	MA39312-STD13	1	STDJ
11:59	ZZZZZZ	1	
12:02	MA39312-ICVA1	1	
12:05	MA39312-ICV1	1	60ppb Al
12:09	MA39312-ICB1	1	
12:12	MA39312-CRI1	1	
12:15	MA39312-CCVA1	1	
12:18	MA39312-CCB1	1	
12:24	MP93458-MB1	1	
12:27	MP93458-MB2	1	
12:30	MP93458-B1	1	
12:34	MP93458-B2	10	
12:37	MP93458-S1	1	
12:40	MP93458-S2	1	
12:43	ZZZZZZ	1	
12:47	JC19250-1	1	(sample used for QC only; not part of login JC19412)
12:50	MA39312-CCVA2	1	
12:53	MA39312-CCB2	1	
12:57	ZZZZZZ	1	
13:00	ZZZZZZ	1	
13:03	ZZZZZZ	1	

#### SGS Accutest Instrument Runlog Inorganics Analyses

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Date Analyzed: 05/02/16

Run ID: MA39312

Methods: EPA 200.8

Analyst: JO Parameters: Pb

File ID: XB050216W2.CSV

-	Dilutior Factor		Comments
ZZZZZZ	1		
ZZZZZZ	1		
ZZZZZZ	1		
ZZZZZZ	1		
ZZZZZZ	1		
MA39312-CCVA3	1		
MA39312-CCB3	1		
MP93459-MB1	1		
MP93459-B1	1		
MP93459-S1	1		
MP93459-S2	1		
ZZZZZZ	1		
JC19412-1	1		
JC19412-2	1		
JC19412-3	1		
JC19412-4	1		high turb
MA39312-CCVA4	1		
MA39312-CCB4	1		
JC19412-5	1		high turb
JC19412-6	1		overrange
JC19412-7	1		
JC19412-8	1		
JC19412-9	1		
JC19412-10	1		
MA39312-CCVA5	1		
MA39312-CCB5	1		
ZZZZZZ	5		
ZZZZZZ	5		
MA39312-CCVA6	1		
MA39312-CCB6	1		
MP93460-MB1	1		
MP93460-B1	1		
	Description  ZZZZZZ  ZZZZZZ  ZZZZZZ  ZZZZZZ  ZZZZZZ	Description         Factor           ZZZZZZZ         1           ZZZZZZZ         1           ZZZZZZZ         1           ZZZZZZZ         1           MA39312-CCVA3         1           MA39312-CCB3         1           MP93459-MB1         1           MP93459-S1         1           MP93459-S2         1           ZZZZZZ         1           JC19412-1         1           JC19412-2         1           JC19412-3         1           JC19412-4         1           MA39312-CCVA4         1           JC19412-5         1           JC19412-6         1           JC19412-7         1           JC19412-8         1           JC19412-9         1           JC19412-10         1           MA39312-CCVA5         1           MA39312-CCVA5         1           MA39312-CCVA6         1           MA39312-CCVA6         1           MA39312-CCVA6         1           MA39312-CCVA6         1	Description         Factor         Recov           ZZZZZZZ         1



#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050216W2.CSV

Date Analyzed: 05/02/16 Methods: EPA 200.8 Run ID: MA39312

Analyst: JO Parameters: Pb

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	14:56	MP93460-S2	1		
	15:00	ZZZZZZ	1		
	15:03	JC19412-12	1		
	15:06	JC19412-13	1		
	15:10	JC19412-14	1		
	15:13	JC19412-6	2		
	15:16	MA39312-CCVA7	1		
	15:20	MA39312-CCB7	1		
>	Last re	JC19412-11 eportable sample, ZZZZZZ	_	job JC194	412
	15:29	MA39312-CCVA8	1		
>	Last re	MA39312-CCB8 eportable CCB for to raw data for (			and standards.

# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050216W2.CSV Analyst: JO Parameters: Pb

Date Analyzed: 05/02/16 Run ID: MA39312

Methods: EPA 200.8

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
11:13	MA39312-STD1	100	100	100	100	100	100	100	100
11:16	MA39312-STD2	100	100	100	100	100	100	100	100
11:19	MA39312-STD3	100	100	100	100	100	100	100	100
11:22	MA39312-STD4	100.083	99.941	101.187	99.644	99.586	100.383	98.447	99.779
11:26	MA39312-STD5	100.481	101.252	100.734	100.986	99.663	100.409	99.6	100.551
11:29	MA39312-STD6	100.874	99.919	99.906	100.024	99.506	99.387	99.758	100.672
11:32	MA39312-STD7	101.342	100.283	100.41	100.628	99.715	99.599	99.476	100.903
11:35	MA39312-STD8	101.471	100.482	101.512	101.301	100.292	100.309	100.388	100.72
11:39	MA39312-STD9	100.055	98.482	98.544	99.174	98.66	98.767	99.402	99.983
11:42	MA39312-STD10	99.612	98.341	98.849	98.59	98.002	99.251	99.532	101.003
11:45	MA39312-STD11	101.213	100.175	101.16	99.471	98.929	100.387	99.754	100.973
11:48	MA39312-STD12	99.104	97.631	98.577	97.017	96.361	97.821	98.848	100.599
11:52	MA39312-STD13	99.948	98.857	101.334	97.721	96.422	97.852	99.894	101.115
11:59	ZZZZZZ	104.66	103.561	103.318	102.488	102.278	102.091	100.884	102.347
12:02	MA39312-ICVA1	100.875	100.511	102.038	99.968	98.413	99.163	100.606	102.104
12:05	MA39312-ICV1	102.582	102.4	102.107	102.249	101.692	101.868	100.818	101.876
12:09	MA39312-ICB1	104.276	104.497	102.891	103.52	102.49	102.804	101.472	102.463
12:12	MA39312-CRI1	104.386	104.696	103.983	103.554	102.548	103.344	101.926	102.722
12:15	MA39312-CCVA1	99.899	97.208	100.56	97.493	94.761	96.554	96.844	98.248
12:18	MA39312-CCB1	104.96	103.294	103.228	101.811	101.915	102.171	101.022	102.097
12:24	MP93458-MB1	106.271	105.546	105.06	103.99	103.078	103.199	101.059	101.742
12:27	MP93458-MB2	96.694	100.337	99.914	99.919	99.475	99.697	98.162	98.928
12:30	MP93458-B1	105.339	104.326	104.16	102.747	101.773	102.249	101.562	102.871
12:34	MP93458-B2	95.474	98.061	98.749	98.491	98.662	99.763	99.631	101.226
12:37	MP93458-S1	93.702	97.672	98.911	98.908	96.252	98.126	100.435	101.024
12:40	MP93458-S2	93.694	96.556	98.4	97.582	95.435	98.08	100.182	101.021
12:43	ZZZZZZ	102.36	100.288	100.966	100.647	100.987	101.541	100.943	102.308
12:47	JC19250-1	96.251	100.67	99.749	100.427	97.634	100.967	101.674	103.013
12:50	MA39312-CCVA2	99.511	98.031	99.727	98.161	97.527	98.882	100.546	102.471
12:53	MA39312-CCB2	102.291	100.878	100.974	100.029	100.58	100.592	101.266	102.468
12:57	ZZZZZZ	96.95	101.608	101.376	102.354	98.583	101.669	101.076	102.097
13:00	ZZZZZZ	96.217	99.231	99.396	99.461	96.412	99.369	100.189	101.687
13:03	ZZZZZZ	96.292	98.366	98.698	98.779	95.629	98.498	98.972	100.068

#### Login Number: JC19412 Account: PARS - PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Methods: EPA 200.8

94.588

96.199

94.939

97.907

95 442

96.094

97.309

95.683

99.321

96 259

97.656

98.441

96.881

100.537

98 039

File ID: XB050216W2.CSV

13:46

13:49

13:53

JC19412-2

JC19412-3

14:00 MA39312-CCVA4

13:56 JC19412-4

14:16 JC19412-8

Date Analyzed: 05/02/16

Analyst: JO Run ID: MA39312 Parameters: Pb Sample Time Istd#1 Istd#2 Istd#3 Istd#4 Istd#5 Istd#6 Istd#7 Istd#8 Description 13:06 7.7.7.7.7.7 No results reported for the elements associated with this internal standard. 13:10 ZZZZZZ 96.543 98.301 98.356 98.221 95.176 98.313 99.232 100.76 13:13 ZZZZZZ 95.008 97.113 97.75 97.637 94.515 97.187 98.051 99.494 13:16 22222 95.959 97 18 94 183 96 139 95 78 93 16 96 76 98 519 13:20 ZZZZZZ 94.469 95.601 96.044 95.379 93.622 96.317 97.447 98.584 13:23 MA39312-CCVA3 95.054 93.302 96.324 93.893 92.798 94.387 97.263 98.342 99.206 97.639 98.243 100 299 13:26 MA39312-CCB3 99.121 98.215 98.373 99.104 13:30 MP93459-MB1 100.203 98.627 100.03 97.873 98.755 99.45 98.008 99.079 13:33 MP93459-B1 97.487 96.667 98.886 98.225 96.427 97.509 97.319 99.011 MP93459-S1 89.644 94.855 94.147 90.881 97.508 99.15 13:36 93.64 94.412 13:39 MP93459-S2 89.568 92.931 93.976 93.756 90.644 93.974 96.369 97.96 13:43 ZZZZZZ 98.416 96.677 97.591 96.564 96.761 97.493 96.679 97.153 JC19412-1 90.335 93.461 90.744

93.457

95.168

94.174

99.39

95

94.62

94.192

97.367

95.453

No results reported for the elements associated with this internal standard.

92.305

91.167

96.487

91 941

93.422

94.406

93.865

97.174

95 388

92.073

89.889

97.049

92 439

14:03 MA39312-CCB4 99.503 98.754 100.043 99.216 99.297 100.308 99.653 99.835 JC19412-5 14:06 No results reported for the elements associated with this internal standard. 14:09 JC19412-6 93.138 96.499 96.333 96.73 93.549 96.397 98.09 99.33 14:13 JC19412-7 91.901 95.6 94.848 94.952 91.988 95.138 95.598 96.735

14:20 JC19412-9 91.629 93.569 93.232 93.004 90.711 93.841 94.691 95.737 14:23 JC19412-10 96.831 101.193 101.479 101.336 97.327 100.721 101.737 102.495 14:27 MA39312-CCVA5 102.985 105.034 108.553 106.598 105.02 106.836 108.356 109.101 14:30 MA39312-CCB5 106.736 109.937 110.563 109.065 109.516 110.348 108.986 109.992

14:33 ZZZZZZ 108.607 111.94 113.696 112.446 110.454 112.824 112.585 113.955 14:37 22222 105.764 109.276 110.733 109.653 108.63 110.694 110.156 111.647 14:40 MA39312-CCVA6 106.348 108.552 111.305 108.782 106.805 108.32 110.158 111.116 14:43 MA39312-CCB6 108.834 110.412 112.491 111.362 111.12 111.15 110.621 111.357

14:46 MP93460-MB1 107.604 106.856 107.575 108.82 107.357 108.183 106.837 107.581 14:50 MP93460-B1 107.815 110.37 111.795 111.547 108.712 110.754 110.921 112.246 14:53 MP93460-S1 99.754 107.214 107.734 108.666 104.731 109.053 110.943 111.973

> 58 of 90 **ACCUTEST**

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Methods: EPA 200.8

File ID: XB050216W2.CSV Analyst: JO

Parameters: Pb

Date Analyzed: 05/02/16

Run ID: MA39312

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
14:56	MP93460-S2	100.044	106.927	109.154	109.889	105.788	109.589	111.704	113.002
15:00	ZZZZZZ	106.457	110.305	111.603	110.538	112.422	113.06	113.051	113.809
15:03	JC19412-12	98.531	105.884	107.406	106.684	102.932	107.535	108.22	109.63
15:06	JC19412-13	93.118	96.493	96.643	96.048	92.971	96.264	97.485	98.482
15:10	JC19412-14	94.615	100.041	99.846	100.1	97.053	99.832	101.111	102.747
15:13	JC19412-6	102.084	106.431	106.921	106.525	103.548	106.24	106.837	107.897
15:16	MA39312-CCVA7	103.988	107.473	110.468	108.206	106.367	107.704	108.973	110.373
15:20	MA39312-CCB7	108.614	111.739	113.22	112.286	111.327	111.836	109.51	110.237
15:23	JC19412-11	102.453	111.011	111.955	112.163	107.313	111.061	112.168	114.023
15:26	ZZZZZZ	109.552	113.566	114.315	114.539	113.639	113.692	112.425	113.331
15:29	MA39312-CCVA8	108.223	111.905	116.183	112.827	110.978	112.132	113.61	114.384
15:33	MA39312-CCB8	111.432	115.753	116.306	115.833	115.953	115.854	114.538	114.978

#### ! = Outside limits.

#### LEGEND:

Istd#	Parameter	Limits
Istd#1	Lithium	60-125 %
Istd#2	Scandium	60-125 %
Istd#3	Germanium (72-1)	60-125 %
Istd#4	Germanium (74-1)	60-125 %
Istd#5	Rhodium	60-125 %
Istd#6	Indium	60-125 %
Istd#7	Terbium	60-125 %
Istd#8	Holmium	60-125 %



# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Methods: EPA 200.8

File ID: XB050216W2.CSV

Date Analyzed: 05/02/16 Run ID: MA39312

Analyst: JO Parameters: Pb

raia	meters. PD	
Time	Sample Description	Istd#9
11:13	MA39312-STD1	100
11:16	MA39312-STD2	100
11:19	MA39312-STD3	100
11:22	MA39312-STD4	98.837
11:26	MA39312-STD5	98.862
11:29	MA39312-STD6	99.724
11:32	MA39312-STD7	100.112
11:35	MA39312-STD8	100.291
11:39	MA39312-STD9	100.11
11:42	MA39312-STD10	98.833
11:45	MA39312-STD11	99.888
11:48	MA39312-STD12	98.377
11:52	MA39312-STD13	98.61
11:59	ZZZZZZ	101.187
12:02	MA39312-ICVA1	99.154
12:05	MA39312-ICV1	100.465
12:09	MA39312-ICB1	101.681
12:12	MA39312-CRI1	101.739
12:15	MA39312-CCVA1	96.272
12:18	MA39312-CCB1	101.114
12:24	MP93458-MB1	101.017
12:27	MP93458-MB2	97.868
12:30	MP93458-B1	100.868
12:34	MP93458-B2	101.923
12:37	MP93458-S1	97.691
12:40	MP93458-S2	97.474
12:43	ZZZZZZ	101.353
12:47	JC19250-1	98.674
12:50	MA39312-CCVA2	100.681
12:53	MA39312-CCB2	101.545
12:57	ZZZZZZ	98.312
13:00	ZZZZZZ	96.206
13:03	ZZZZZZ	96.459

## Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050216W2.CSV Analyst: JO Date Analyzed: 05/02/16 Methods: EPA 200.8 Run ID: MA39312

Parameters: Pb

Time	Sample Description	Istd#9
13:06	ZZZZZZ	No results reported for the elements associated with this internal standard.
13:10	ZZZZZZ	96.18
13:13	ZZZZZZ	95.187
13:16	ZZZZZZ	94.392
13:20	ZZZZZZ	94.541
13:23	MA39312-CCVA3	97.714
13:26	MA39312-CCB3	98.663
13:30	MP93459-MB1	98.298
13:33	MP93459-B1	98.622
13:36	MP93459-S1	94.368
13:39	MP93459-S2	93.146
13:43	ZZZZZZ	96.52
13:46	JC19412-1	93.052
13:49	JC19412-2	93.377
13:53	JC19412-3	93.126
13:56	JC19412-4	No results reported for the elements associated with this internal standard.
14:00	MA39312-CCVA4	98.691
14:03	MA39312-CCB4	99.209
14:06	JC19412-5	No results reported for the elements associated with this internal standard.
14:09	JC19412-6	94.4
14:13	JC19412-7	92.274
14:16	JC19412-8	93.521
14:20	JC19412-9	90.828
14:23	JC19412-10	98.599
14:27	MA39312-CCVA5	107.461
14:30	MA39312-CCB5	107.827
14:33	ZZZZZZ	110.766
14:37	ZZZZZZ	109.413
14:40	MA39312-CCVA6	108.313
14:43	MA39312-CCB6	110.357
14:46	MP93460-MB1	106.899
14:50	MP93460-B1	110.092
14:53	MP93460-S1	106.15



### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050216W2.CSV

Date Analyzed: 05/02/16 Methods: EPA 200.8 Run ID: MA39312

Analyst: JO Parameters: Pb

Time	Sample Description	Istd#9				
14:56	MP93460-S2	107.548				
15:00	ZZZZZZ	112.397				
15:03	JC19412-12	104.603				
15:06	JC19412-13	93.783				
15:10	JC19412-14	98.021				
15:13	JC19412-6	104.76				
15:16	MA39312-CCVA7	108.346				
15:20	MA39312-CCB7	109.148				
15:23	JC19412-11	108.344				
15:26	ZZZZZZ	112.064				
15:29	MA39312-CCVA8	111.506				
15:33	MA39312-CCB8	114.31				
! = Ou	tside limits.					
	Parameter Bismuth		<u>Limits</u> 60-125 %			

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ File ID: XB050216W2.CSV Date Analyzed: 05/02/16 Methods: EPA 200.8

File ID: XB QC Limits: re				e Analyze Run I	ed: 05/02/ ED: MA3931		ethods: EF Units: ug			
Time: Sample ID: Metal		IDL	12:09 ICB1 raw	final	12:18 CCB1 raw	final	12:53 CCB2 raw	final	13:26 CCB3 raw	final
Aluminum	50	.1								
Antimony	2.0	.12								
Arsenic	1.0	.38								
Barium	1.0	.011								
Beryllium	0.30	.004								
Boron	50	3.2								
Cadmium	0.50	.008								
Calcium	250	2.7								
Chromium	4.0	.019								
Cobalt	0.50	.003								
Copper	4.0	.02	anr							
Iron	50	1.1								
Lead	0.50	.009	0.0036	<0.50	0.015	<0.50	0.026	<0.50	0.019	<0.50
Magnesium	250	.17								
Manganese	1.0	.019								
Molybdenum	1.0	.02								
Nickel	4.0	.028								
Potassium	250	2								
Selenium	1.0	. 29								
Silver	2.0	.019								
Sodium	250	3.9								
Strontium	1.0	.009								
Thallium	0.50	.016								
Tin	1.0	.039								
Titanium	1.0	.034								
Vanadium	4.0	.11								
Zinc	10	. 29								

(\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050216W2.CSV QC Limits: result < RL Date Analyzed: 05/02/16 Run ID: MA39312

Methods: EPA 200.8 Units: ug/l

Time: Sample ID:			14:03 CCB4		14:30 CCB5		14:43 CCB6		15:20 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	50	.1								
Antimony	2.0	.12								
Arsenic	1.0	.38								
Barium	1.0	.011								
Beryllium	0.30	.004								
Boron	50	3.2								
Cadmium	0.50	.008								
Calcium	250	2.7								
Chromium	4.0	.019								
Cobalt	0.50	.003								
Copper	4.0	.02	anr							
Iron	50	1.1								
Lead	0.50	.009	0.057	<0.50	0.047	<0.50	0.048	<0.50	0.067	<0.50
Magnesium	250	.17								
Manganese	1.0	.019								
Molybdenum	1.0	.02								
Nickel	4.0	.028								
Potassium	250	2								
Selenium	1.0	.29								
Silver	2.0	.019								
Sodium	250	3.9								
Strontium	1.0	.009								
Thallium	0.50	.016								
Tin	1.0	.039								
Titanium	1.0	.034								
Vanadium	4.0	.11								
Zinc	10	.29								

(\*) Outside of QC limits (anr) Analyte not requested

SGS 64 of 90
ACCUTEST

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050216W2.CSV QC Limits: result < RL

Run ID: MA39312

Date Analyzed: 05/02/16 Methods: EPA 200.8 Units: ug/l

Time: Sample ID:			15:33 CCB8	
Metal	RL	IDL	raw	final
Aluminum	50	.1		
Antimony	2.0	.12		
Arsenic	1.0	.38		
Barium	1.0	.011		
Beryllium	0.30	.004		
Boron	50	3.2		
Cadmium	0.50	.008		
Calcium	250	2.7		
Chromium	4.0	.019		
Cobalt	0.50	.003		
Copper	4.0	.02	anr	
Iron	50	1.1		
Lead	0.50	.009	0.043	<0.50
Magnesium	250	.17		
Manganese	1.0	.019		
Molybdenum	1.0	.02		
Nickel	4.0	.028		
Potassium	250	2		
Selenium	1.0	.29		
Silver	2.0	.019		
Sodium	250	3.9		
Strontium	1.0	.009		
Thallium	0.50	.016		
Tin	1.0	.039		
Titanium	1.0	.034		
Vanadium	4.0	.11		
Zinc	10	.29		

(\*) Outside of QC limits (anr) Analyte not requested

SGS ACCUTEST

#### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050216W2.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 05/02/16 Run ID: MA39312

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	ICVA True	12:02 ICVA1 Results	% Rec	ICV True	12:05 ICV1 Results	% Rec	CCVA True	12:15 CCVA1 Results	% Rec	
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper	anr									
Iron										
Lead	60	59.7	99.5				50	54.9	109.8	
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

(\*) Outside of QC limits (anr) Analyte not requested



### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050216W2.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 05/02/16 Run ID: MA39312

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	CCVA True	12:50 CCVA2 Results	% Rec	CCVA True	13:23 CCVA3 Results	% Rec	CCVA True	14:00 CCVA4 Results	% Rec	
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper	anr									
Iron										
Lead	50	48.2	96.4	50	48.0	96.0	50	48.1	96.2	
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

(\*) Outside of QC limits (anr) Analyte not requested



#### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050216W2.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 05/02/16 Run ID: MA39312

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	CCVA True	14:27 CCVA5 Results	% Rec	CCVA True	14:40 CCVA6 Results	% Rec	CCVA True	15:16 CCVA7 Results	% Rec
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	anr								
Iron									
Lead	50	48.2	96.4	50	48.5	97.0	50	48.6	97.2
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

(\*) Outside of QC limits (anr) Analyte not requested

Page 3

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050216W2.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 05/02/16 Run ID: MA39312

Methods: EPA 200.8 Units: ug/l

Aluminum Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper anr Iron Lead 50 48.7 97.4 Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	2			
Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper anr Iron Lead 50 48.7 97.4 Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium		CCVA	CCVA8	% Rec
Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper anr Iron Lead 50 48.7 97.4 Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	Aluminum			
Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper anr Iron Lead 50 48.7 97.4 Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	Antimony			
Beryllium Boron Cadmium Calcium Chromium Cobalt Copper anr Iron Lead 50 48.7 97.4 Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	Arsenic			
Boron Cadmium Calcium Chromium Cobalt Copper anr Iron Lead 50 48.7 97.4 Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	Barium			
Cadmium  Calcium  Chromium  Cobalt  Copper anr  Iron  Lead 50 48.7 97.4  Magnesium  Manganese  Molybdenum  Nickel  Potassium  Selenium  Silver  Sodium  Strontium  Thallium  Tin  Titanium  Vanadium	Beryllium			
Calcium Chromium Cobalt Copper anr Iron Lead 50 48.7 97.4 Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	Boron			
Chromium  Cobalt  Copper anr  Iron  Lead 50 48.7 97.4  Magnesium  Manganese  Molybdenum  Nickel  Potassium  Selenium  Silver  Sodium  Strontium  Thallium  Tin  Titanium  Vanadium	Cadmium			
Cobalt Copper anr Iron Lead 50 48.7 97.4 Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	Calcium			
Copper anr Iron  Lead 50 48.7 97.4  Magnesium  Manganese  Molybdenum  Nickel  Potassium  Selenium  Silver  Sodium  Strontium  Thallium  Tin  Titanium  Vanadium	Chromium			
Iron  Lead 50 48.7 97.4  Magnesium  Manganese  Molybdenum  Nickel  Potassium  Selenium  Silver  Sodium  Strontium  Thallium  Tin  Titanium  Vanadium	Cobalt			
Lead 50 48.7 97.4  Magnesium  Manganese  Molybdenum  Nickel  Potassium  Selenium  Silver  Sodium  Strontium  Thallium  Tin  Titanium  Vanadium	Copper	anr		
Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	Iron			
Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	Lead	50	48.7	97.4
Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	Magnesium			
Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	Manganese			
Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	Molybdenum			
Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium	Nickel			
Silver Sodium Strontium Thallium Tin Titanium Vanadium	Potassium			
Sodium Strontium Thallium Tin Titanium Vanadium	Selenium			
Strontium Thallium Tin Titanium Vanadium	Silver			
Thallium Tin Titanium Vanadium	Sodium			
Tin Titanium Vanadium	Strontium			
Titanium Vanadium	Thallium			
Vanadium	Tin			
	Titanium			
Zinc	Vanadium			
	Zinc			

(\*) Outside of QC limits (anr) Analyte not requested

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050216W2.CSV QC Limits: 70 to 130 % Recovery

Run ID: MA39312

Date Analyzed: 05/02/16 Methods: EPA 200.8 Units: ug/l

Time: Sample ID:		CRIA	12:12 CRI1	
Metal	True	True	Results	% Rec
Aluminum	25	25		
Antimony	2.0	0.25		
Arsenic	0.50	1.0		
Barium	1.0	0.50		
Beryllium	0.50	0.30		
Boron	25	2.5		
Cadmium	0.50	0.25		
Calcium	250	125		
Chromium	1.0	2.0		
Cobalt	0.50	0.25		
Copper	2.0	2.0	anr	
Iron	25	25		
Lead	0.50	0.25	0.50	100.0
Magnesium	250	125		
Manganese	0.50	0.25		
Molybdenum	1.0	0.50		
Nickel	1.0	2.0		
Potassium	250	125		
Selenium	0.50	1.0		
Silver	0.50	1.0		
Sodium	250	125		
Strontium	5.0	0.50		
Thallium	0.50	0.25		
Tin	5.0	0.50		
Titanium	1.0	0.50		
Vanadium	1.0	2.0		
Zinc	5.0	2.0		

(\*) Outside of QC limits (anr) Analyte not requested

SGS ACCUTEST

#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

Methods: EPA 200.8

File ID: XB050416W1.CSV

Date Analyzed: 05/04/16

Run ID: MA39328 Analyst: JO Parameters: Pb

Refer to raw data for calibration curve and standards.

	Time	Sample Description	Dilution PS Factor Recov	Comments
	09:32	MA39328-STD1	1	STDA
	09:36	MA39328-STD2	1	STDA
	09:39	MA39328-STD3	1	STDA
	09:42	MA39328-STD4	1	STDB1
	09:45	MA39328-STD5	1	STDB
	09:48	MA39328-STD6	1	STDC
	09:52	MA39328-STD7	1	STDD
	09:55	MA39328-STD8	1	STDE
	09:58	MA39328-STD9	1	STDF
	10:02	MA39328-STD10	1	STDG
	10:05	MA39328-STD11	1	STDH
	10:08	MA39328-STD12	1	STDI
	10:12	MA39328-STD13	1	STDJ
	10:16	ZZZZZZ	1	
	10:19	MA39328-ICVA1	1	
	10:23	MA39328-ICV1	1	60ppb Al.
	10:26	MA39328-ICB1	1	
	10:29	MA39328-CRI1	1	
	10:32	MA39328-CRIA1	1	Be, As and Se
	10:36	MA39328-CCVA1	1	
	10:39	MA39328-CCB1	1	
	10:43	MP93360-MB2	1	
	10:47	MP93360-B2	1	
	10:50	ZZZZZZ	1	
	10:53	ZZZZZZ	1	
	10:56	JC19412-4	1	
>	Last r		1 /prep for job JC19 1	412
>	Last r	MA39328-CCB2		

# Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050416W1.CSV

Date Analyzed: 05/04/16 Methods: EPA 200.8 Analyst: JO

Run ID: MA39328

	yst: JO meters: Pb			Run ID	: MA39328				
Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
09:32	MA39328-STD1	100	100	100	100	100	100	100	100
09:36	MA39328-STD2	100	100	100	100	100	100	100	100
09:39	MA39328-STD3	100	100	100	100	100	100	100	100
09:42	MA39328-STD4	102.892	100.417	100.803	100.932	101.186	100.947	101.425	101.551
09:45	MA39328-STD5	101.238	100.622	100.488	101.114	100.11	100.683	100.813	100.425
09:48	MA39328-STD6	101.917	100.235	101.031	101.138	100.553	100.053	101.682	102.251
09:52	MA39328-STD7	103.117	100.414	100.48	101.121	101.527	100.767	102.92	102.298
09:55	MA39328-STD8	101.585	100.266	100.999	101.073	100.954	100.732	101.406	101.539
09:58	MA39328-STD9	102.793	100.261	100.341	100.797	100.812	100.509	102.329	102.147
10:02	MA39328-STD10	102.045	98.82	99.279	98.79	99.344	100.077	101.344	101.421
10:05	MA39328-STD11	101.876	99.631	99.756	99.996	99.098	100.693	101.156	101.403
10:08	MA39328-STD12	100.33	99.123	100.449	99.606	97.981	98.872	101.61	102.499
10:12	MA39328-STD13	100.171	98.462	100.622	98.269	97.739	98.48	102.375	102.779
10:16	ZZZZZZ	101.139	98.85	99.731	99.24	101.027	101.116	102.08	101.809
10:19	MA39328-ICVA1	101.073	99.611	101.261	100.086	99.028	99.956	103.147	103.46
10:23	MA39328-ICV1	100.593	98.564	98.909	100.119	100.741	100.676	101.006	101.178
10:26	MA39328-ICB1	100.401	99.255	99.867	100.248	100.95	101.004	101.487	101.988
10:29	MA39328-CRI1	101.805	99.682	99.452	100.124	101.449	101.368	102.976	102.872
10:32	MA39328-CRIA1	100.391	99.551	100.297	100.668	100.333	100.931	101.967	101.917
10:36	MA39328-CCVA1	99.92	98.336	101.171	99.801	98.694	99.125	101.76	102.53
10:39	MA39328-CCB1	100.579	98.027	97.829	99.652	99.908	100.71	102.333	102.38
10:43	MP93360-MB2	104.743	100.807	102.394	102.157	103.6	103.395	104.191	105.322
10:47	MP93360-B2	100.954	99.798	100.527	101.543	100.576	100.978	103.114	103.92
10:50	ZZZZZZ	100.834	98.517	98.639	99.406	100.488	100.671	101.545	102.312
10:53	ZZZZZZ	102.268	99.204	99.634	100.204	99.229	102.216	104.931	105.727
10:56	JC19412-4	95.783	94.021	95.344	94.73	93.224	95.545	100.984	101.085
11:00	JC19412-5	99.17	97.055	97.192	97.749	95.489	97.907	102.36	103.148
11:03	MA39328-CCVA2	100.405	96.863	98.934	98.379	97.808	98.952	103.3	104.129
11:07	MA39328-CCB2	100.923	97.517	98.505	98.604	99.673	100.018	101.694	102.447

! = Outside limits.

LEGEND:

Istd#	Parameter		Limits		
Istd#1	Lithium		60-125	용	
Istd#2	Scandium		60-125	용	
Istd#3	Germanium	(72-1)	60-125	용	
Istd#4	Germanium	(74-1)	60-125	용	
Istd#5	Rhodium		60-125	용	

Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ Date Analyzed: 05/04/16

Run ID: MA39328

Methods: EPA 200.8

Istd#6

Istd#7

Istd#8

Istd#5

File ID: XB050416W1.CSV Analyst: JO Parameters: Pb

Sample Time Description Istd#1 Istd#2 Istd#3 Istd#4

Istd#8	Indium	60-125 %
Istd#7	Terbium	60-125 %
Istd#8	Holmium	60-125 %

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050416W1.CSV Date Analyzed: 05/04/16 Methods: EPA 200.8 Run ID: MA39328

Analyst: JO Parameters: Pb

rara	meters. PD	
Time	Sample Description	Istd#9
09:32	MA39328-STD1	100
09:36	MA39328-STD2	100
09:39	MA39328-STD3	100
09:42	MA39328-STD4	100.962
09:45	MA39328-STD5	100.33
09:48	MA39328-STD6	101.471
09:52	MA39328-STD7	103.181
09:55	MA39328-STD8	101.621
09:58	MA39328-STD9	103.126
10:02	MA39328-STD10	100.843
10:05	MA39328-STD11	100.902
10:08	MA39328-STD12	99.385
10:12	MA39328-STD13	99.58
10:16	ZZZZZZ	101.999
10:19	MA39328-ICVA1	102.309
10:23	MA39328-ICV1	100.867
10:26	MA39328-ICB1	102.317
10:29	MA39328-CRI1	102.672
10:32	MA39328-CRIA1	102.31
10:36	MA39328-CCVA1	100.787
10:39	MA39328-CCB1	102.031
10:43	MP93360-MB2	106.636
10:47	MP93360-B2	103.268
10:50	ZZZZZZ	102.105
10:53	ZZZZZZ	103.856
10:56	JC19412-4	98.272
11:00	JC19412-5	99.738
11:03	MA39328-CCVA2	101.856
11:07	MA39328-CCB2	102.578
! = Ou	tside limits.	
LEGEND		Limits
	Bismuth	60-125 %

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050416W1.CSV Date Analyzed: 05/04/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA39328 Units: ug/l

Time: Sample ID:			10:26 ICB1		10:39 CCB1		11:07 CCB2	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	50	.1						
Antimony	2.0	.12						
Arsenic	1.0	.38						
Barium	1.0	.011						
Beryllium	0.30	.004						
Boron	50	3.2						
Cadmium	0.50	.008						
Calcium	250	2.7						
Chromium	4.0	.019						
Cobalt	0.50	.003						
Copper	4.0	.02	anr					
Iron	50	1.1						
Lead	0.50	.009	0.0024	<0.50	0.0079	<0.50	0.020	<0.50
Magnesium	250	.17						
Manganese	1.0	.019						
Molybdenum	1.0	.02						
Nickel	4.0	.028						
Potassium	250	2						
Selenium	1.0	. 29						
Silver	2.0	.019						
Sodium	250	3.9						
Strontium	1.0	.009						
Thallium	0.50	.016						
Tin	1.0	.039						
Titanium	1.0	.034						
Vanadium	4.0	.11						
Zinc	10	.29						

(\*) Outside of QC limits (anr) Analyte not requested

SGS ACCUTEST

#### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050416W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 05/04/16 Run ID: MA39328

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal		10:19 ICVA1 Results	% Rec	ICV True	10:23 ICV1 Results	% Rec	CCVA True	10:36 CCVA1 Results	% Rec	
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper	anr									
Iron										
Lead	60	59.2	98.7				50	50.0	100.0	
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

(\*) Outside of QC limits (anr) Analyte not requested

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050416W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 05/04/16 Run ID: MA39328

Methods: EPA 200.8 Units: ug/l

	Time: Sample ID:	CCVA	11:03 CCVA2	
М	etal	True	Results	% Rec
A	luminum			
Aı	ntimony			
A:	rsenic			
Ва	arium			
В	eryllium			
В	oron			
Ca	admium			
Ca	alcium			
Cl	hromium			
C	obalt			
C	opper	anr		
	ron			
L	ead	50	50.1	100.2
Ma	agnesium			
	anganese			
	olybdenum			
	ickel			
Po	otassium			
	elenium			
	ilver			
	odium			
	trontium			
	hallium			
	in			
	itanium			
	anadium			
	inc			
۵.	1110			

(\*) Outside of QC limits (anr) Analyte not requested

SGS ACCUTEST

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

## Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

File ID: XB050416W1.CSV QC Limits: 70 to 130 % Recovery

Run ID: MA39328

Date Analyzed: 05/04/16 Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	CRI True	CRIA True	10:29 CRI1 Results	% Rec	10:32 CRIA1 Results	% Rec
Aluminum	25	25				
Antimony	2.0	0.25				
Arsenic	0.50	1.0				
Barium	1.0	0.50				
Beryllium	0.50	0.30				
Boron	25	2.5				
Cadmium	0.50	0.25				
Calcium	250	125				
Chromium	1.0	2.0				
Cobalt	0.50	0.25				
Copper	2.0	2.0	anr			
Iron	25	25				
Lead	0.50	0.25	0.51	102.0		
Magnesium	250	125				
Manganese	0.50	0.25				
Molybdenum	1.0	0.50				
Nickel	1.0	2.0				
Potassium	250	125				
Selenium	0.50	1.0				
Silver	0.50	1.0				
Sodium	250	125				
Strontium	5.0	0.50				
Thallium	0.50	0.25				
Tin	5.0	0.50				
Titanium	1.0	0.50				
Vanadium	1.0	2.0				
Zinc	5.0	2.0				

(\*) Outside of QC limits (anr) Analyte not requested

SGS ACCUTEST

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

#### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93360 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

05/03/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.050	.0001	.00074		
Antimony	0.0020	.00012	.00021		
Arsenic	0.0010	.00038	.00081		
Barium	0.0010	.000011	.000044		
Beryllium	0.00030	.000004	.000079		
Boron	0.050	.0032			
Cadmium	0.00050	.000008	.000041		
Calcium	0.25	.0027	.0075		
Chromium	0.0040	.000019	.00018		
Cobalt	0.00050	.000003	.000014		
Copper	0.0040	.00002	.0012		
Iron	0.050	.0011	.009		
Lead	0.00050	.000009	.000018	0.000017	<0.00050
Magnesium	0.25	.00017	.00051		
Manganese	0.0010	.000019	.00006		
Molybdenum	0.0010	.00002	.000059		
Nickel	0.0040	.000028	.00023		
Potassium	0.25	.002	.015		
Selenium	0.0010	.00029	.00051		
Silver	0.0020	.000019	.000022		
Sodium	0.25	.0039	.015		
Strontium	0.0010	.000009	.000014		
Thallium	0.00050	.000016	.0001		
Tin	0.0010	.000039	.000043		
Titanium	0.0010	.000034	.00038		
Vanadium	0.0040	.00011	.00082		
Zinc	0.010	.00029	.00061		

Associated samples MP93360: JC19412-4, JC19412-5

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC19412

Units: mg/l

Account: PARS - PARS Environmental Services Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93360 Methods: EPA 200.8

04/27/16 Prep Date:

Matrix Type: DRINKING WATER

Metal	JC18908-1 Original MS	Spikelot MPXDW7	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	anr			
Iron				
Lead	0.00052 0.10	0.10	99.5	70-130
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP93360: JC19412-4, JC19412-5

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested



#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC19412 Account: PARS - PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93360 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/27/16

Metal	JC18908-1 Original MSD	Spikelot MPXDW7 % Rec	MSD RPD	QC Limit
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	anr			
Iron				
Lead	0.00052 0.099	0.10 98.5	1.0	20
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
<b>Tin</b>				
Titanium				
Vanadium				
Zinc				

Associated samples MP93360: JC19412-4, JC19412-5

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC19412 Account: PARS - PARS Environmental Services

Units: mg/l

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93360 Methods: EPA 200.8

05/03/16 Prep Date:

Matrix Type: DRINKING WATER

	Dan	0.11.7.1		
Metal	BSP Result	Spikelot MPXDW7	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
	anr			
Iron				
Lead	0.098	0.10	98.0	85-115
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP93360: JC19412-4, JC19412-5

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93459 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

05/02/16

					,,
Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.050	.0001	.00074		
Antimony	0.0020	.00012	.00021		
Arsenic	0.0010	.00038	.00081		
Barium	0.0010	.000011	.000044		
Beryllium	0.00030	.000004	.000079		
Boron	0.050	.0032			
Cadmium	0.00050	.000008	.000041		
Calcium	0.25	.0027	.0075		
Chromium	0.0040	.000019	.00018		
Cobalt	0.00050	.000003	.000014		
Copper	0.0040	.00002	.0012		
Iron	0.050	.0011	.009		
Lead	0.00050	.000009	.000018	0.000018	<0.00050
Magnesium	0.25	.00017	.00051		
Manganese	0.0010	.000019	.00006		
Molybdenum	0.0010	.00002	.000059		
Nickel	0.0040	.000028	.00023		
Potassium	0.25	.002	.015		
Selenium	0.0010	.00029	.00051		
Silver	0.0020	.000019	.000022		
Sodium	0.25	.0039	.015		
Strontium	0.0010	.000009	.000014		
Thallium	0.00050	.000016	.0001		
Tin	0.0010	.000039	.000043		
Titanium	0.0010	.000034	.00038		
Vanadium	0.0040	.00011	.00082		
Zinc	0.010	.00029	.00061		

Associated samples MP93459: JC19412-1, JC19412-2, JC19412-3, JC19412-6, JC19412-7, JC19412-8, JC19412-9, JC19412-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC19412

Account: PARS - PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93459 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

05/02/16 Prep Date:

Metal	JC19412-1 Original MS	Spikelot MPXDW7	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.0069 0.11	0.10	103.1	70-130
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP93459: JC19412-1, JC19412-2, JC19412-3, JC19412-6, JC19412-7, JC19412-8, JC19412-9, JC19412-10

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC19412 Account: PARS - PARS Environmental Services

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93459 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

05/02/16

Metal	JC19412-1 Original MSD	Spikelot MPXDW7 % Rec	MSD RPD	QC Limit
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.0069 0.11	0.10 103.1	0.0	20
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP93459: JC19412-1, JC19412-2, JC19412-3, JC19412-6, JC19412-7, JC19412-8, JC19412-9, JC19412-10

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

### Login Number: JC19412 Account: PARS - PARS Environmental Service

Account: PARS - PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93459 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date: 05/02/16

Metal	BSP Result	Spikelot MPXDW7	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.094	0.10	94.0	85-115
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP93459: JC19412-1, JC19412-2, JC19412-3, JC19412-6, JC19412-7, JC19412-8, JC19412-9, JC19412-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

#### Login Number: JC19412

Account: PARS - PARS Environmental Services
Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93460 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

05/02/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.050	.0001	.00074		
Antimony	0.0020	.00012	.00021		
Arsenic	0.0010	.00038	.00081		
Barium	0.0010	.000011	.000044		
Beryllium	0.00030	.000004	.000079		
Boron	0.050	.0032			
Cadmium	0.00050	.000008	.000041		
Calcium	0.25	.0027	.0075		
Chromium	0.0040	.000019	.00018		
Cobalt	0.00050	.000003	.000014		
Copper	0.0040	.00002	.0012		
Iron	0.050	.0011	.009		
Lead	0.00050	.000009	.000018	0.000040	<0.00050
Magnesium	0.25	.00017	.00051		
Manganese	0.0010	.000019	.00006		
Molybdenum	0.0010	.00002	.000059		
Nickel	0.0040	.000028	.00023		
Potassium	0.25	.002	.015		
Selenium	0.0010	.00029	.00051		
Silver	0.0020	.000019	.000022		
Sodium	0.25	.0039	.015		
Strontium	0.0010	.000009	.000014		
Thallium	0.00050	.000016	.0001		
Tin	0.0010	.000039	.000043		
Titanium	0.0010	.000034	.00038		
Vanadium	0.0040	.00011	.00082		
Zinc	0.010	.00029	.00061		

Associated samples MP93460: JC19412-11, JC19412-12, JC19412-13, JC19412-14

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC19412

Account: PARS - PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93460 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

05/02/16 Prep Date:

Metal	JC19412-12 Original MS	Spikelot MPXDW7	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.0045 0.11	0.10	105.5	70-130
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP93460: JC19412-11, JC19412-12, JC19412-13, JC19412-14

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

#### Login Number: JC19412 Account: PARS - PARS Environmental Services

Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93460 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

05/02/16

Metal	JC19412-12 Original MSD	Spikelot MPXDW7	% Rec	MSD RPD	QC Limit
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead	0.0045 0.11	0.10	105.5	0.0	20
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP93460: JC19412-11, JC19412-12, JC19412-13, JC19412-14

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested



#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC19412

Account: PARS - PARS Environmental Services Project: WWP Schools-Maurice Hawk, 303-305 Clarksville Road, West Windsor, NJ

QC Batch ID: MP93460 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

05/02/16 Prep Date:

Metal	BSP Result	Spikelot MPXDW7	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.094	0.10	94.0	85-115
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP93460: JC19412-11, JC19412-12, JC19412-13, JC19412-14

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested



### 

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT MAURICE HAWK ELEMENTARY SCHOOL MAY 2016

## APPENDIX D LABORATORY CERTIFICATION

# State of New Jersey Department of Environmental Protection Certifies That SGS Accutest Inc. – Wheat Ridge

Laboratory Certification ID # CO007

is hereby approved as a

Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2016



Mille M. Pott p get

Joseph F. Aiello Assistant Director

NJDEP is a NELAP Recognized Accreditation Body



# State of New Jersey Department of Environmental Protection Certifies That SGS Accutest Inc. - Dayton Laboratory Certification ID # 12129

is hereby approved as a

### Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2016

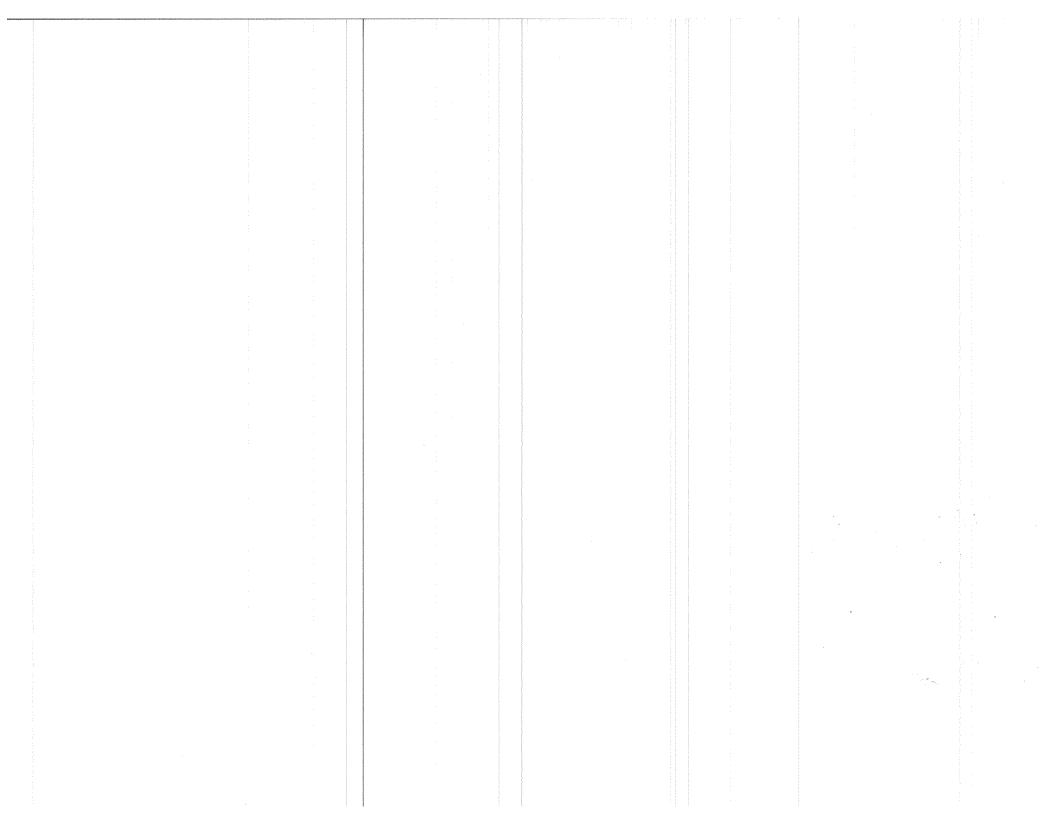


Muhile M. Pott pr 324

Joseph F. Aiello Assistant Director



NJDEP is a NELAP Recognized Accreditation Body





### LEAD IN DRINKING WATER TESTING REPORT

WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD PLAINSBORO, NEW JERSEY 08536

#### PREPARED FOR

West Windsor-Plainsboro Regional School District 505 Village Road West PO Box 505 West Windsor, New Jersey 08550

#### PREPARED BY

PARS Environmental, Inc. 500 Horizon Drive, Suite 540 Robbinsville, New Jersey 08691

Tel: 609-890-7277 Fax: 609-890-9116

PARS Project No. 565-84

**April 2016** 



LABORATORY CERTIFICATION

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT MILLSTONE RIVER ELEMENTARY SCHOOL APRIL 2016

#### **PARS**

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**PARS** 

#### **EXECUTIVE SUMMARY**

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Millstone River Elementary School (MRES). PARS conducted the lead in drinking water testing on March 24, 2016. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the United States Environmental Protection Agency (USEPA) 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (USEPA 3Ts). PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

#### **FINDINGS**

The USEPA National Primary Drinking Water Regulations requires that immediate action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 milligrams per liter (mg/l). Exceedance of the 0.015 mg/l action level was not identified in MRES. A total of 10 water samples were collected and analyzed.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.



**PARS** 

#### 1.0 INTRODUCTION

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Millstone River Elementary School (MRES). The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the *USEPA 3Ts*. PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

Sampling methodology is described in Section 2.0, the Lead in Drinking Water Findings are discussed in Section 3.0, and the Conclusions and Recommendations are presented in Section 4.0. A list of the sample locations and results are provided in **Table 1**. The Laboratory Analytical Report and Laboratory NELAC Certification are provided in **Appendix A** and **B**, respectively.

This report is intended for the sole use of WWP. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations, is at risk of said user.



**PARS** 

#### 2.0 LEAD IN DRINKING WATER SAMPLING

PARS conducted lead in drinking water testing at the MRES on March 24, 2016. The lead in drinking water sampling was conducted by Christa Casciolini and Melissa Konieczny of PARS.

PARS performed lead in drinking water testing at a total of six (6) drinking water fountains (bubbler and cooler units) and four (4) faucets in the nurse's office, kitchen, and classroom locations in the elementary school.

All samples were collected following the USEPA First Draw sampling protocol. The First Draw sample collection occurred in the morning prior to the facility opening and before any water was drawn in the building, including toilet flushing. The water was unused for six (6) to eight (8) hours prior to collection. Arrangements were made to sample the water outlets prior to the arrival of teachers and students.

The samples were placed in pre-preserved plastic bottles and submitted for laboratory analysis to SGS Accutest for two-week turnaround. SGS Accutest is a New Jersey Department of Environmental Protection (NJDEP) certified laboratory for lead in drinking water (NELAC #CO007). All samples were analyzed using USEPA Method 200.8 for the determination of trace elements in waters and wastes by inductively coupled plasma – mass spectrometry (ICP-MS). Chain-of-custody protocols were followed.



**PARS** 

#### 3.0 LEAD IN DRINKING WATER FINDINGS

Based on the laboratory analytical results, lead concentrations exceeding 0.015 mg/l action level were not identified in the 10 water samples collected at MRES.

Lead in drinking water tabulated results for the MRES are provided in **Table 1**. The laboratory analytical report is included in **Appendix A.** The laboratory certification is included in **Appendix B**.

**PARS** 

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

A total of six (6) drinking water fountains and four (4) faucets in the nurse's office, kitchen, and classroom locations were tested at the MRES. The USEPA recommends that action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 mg/l. None of the 10 outlets sampled in the MRES exceeded the 0.015 mg/l action level.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.

-000-

PARS appreciates the opportunity to assist West Windsor-Plainsboro Regional School District with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

PARS ENVIRONMENTAL, INC.

Charte Cala

Christa M. Casciolini

**Project Geologist** 

Margaret Halasnik

Principal Industrial Hygienist

Pargaret Halasin





# TABLE 1 DRINKING WATER RESULTS TABLE

#### TABLE 1

### LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT MILLSTONE RIVER ELEMENTARY SCHOOL APRIL 2016

All samples are primary (first draw) samples. All faucets sampled are cold water, unless noted. EPA Action limit = 0.015 milligrams per liter (mg/l)

School:		Elementary School										
Sampling Date:	3/24/2016											
Exceeds EPA Action Limit ( > 0.015 mg/l)												
Hit = result > 0.00050 detection limit												
Accutest Mountain States										A	Apr 05, 2016 15:05 pm	
Job Number: D81107												
Account:	PARS Environn	ARS Environmental Services										
Project:	Project: WWP Regional, West Windsor-Plainsboro, NJ											
Project Number:												
										Legend:	Hit	
Client Sample ID:		MRE-01-NUR-NS-P	MRE-01-KIT-KC-P	MRE-01-A121-TF-P	MRE-01-A109-DW- P	MRE-01-A145-DW- P	MRE-01-A124H- WC-P	MRE-01-B124H- WC-P	MRE-01-B121-TF-P	MRE-01-B108-DW- P	MRE-01-B153-DW- P	
Lab Sample ID:		D81107-1	D81107-2	D81107-3	D81107-4	D81107-5	D81107-6	D81107-7	D81107-8	D81107-9	D81107-10	
Date Sampled:		3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	
Metals Analysis												
Lead	mg/l	< 0.00050	0.00075	< 0.00050	0.00056	< 0.00050	< 0.00050	0.00058	< 0.00050	0.00069	0.002	
	•		•	•		•	•	•		•	·	

Client Sample ID Format: School-Floor-Room-Outlet-Sample Type Sample Type: BF = Bathroom faucet P = Primary (first draw) sample F = Flush sample 02 = Second floor ###-### = Sample between room number ### and room # CF = Classroom faucet DW= Drinking water bubbler H### = Hallway by room number ### BL = Boy's locker room EC = Home economics room, cold CAF = Cafeteria KC = Kitchen faucet, cold FR = Faculty room LC = Lounge faucet, cold GL = Girl's locker room NS = Nurse's office sink KIT = Kitchen WC = Water cooler (chiller unit) MGYM = Main gym TF or TS = Teacher's faucet or Teacher's sink MO = Main office NUR = Nurse's office SGYM = Small gym TGL = Team girl's locker room TL = Teacher's lounge TP = Teacher's prep room

PLR = Pool Locker room





## APPENDIX A LABORATORY ANALYTICAL REPORT



### **ACCUTEST**Mountain State

04/05/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

#### Technical Report for

#### **PARS** Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ

**MRE** 

SGS Accutest Job Number: D81107

Sampling Date: 03/24/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 ccasciolini@ParsEnviro.com

ATTN: Crista Casciolini

Total number of pages in report: 30

SULTO ACCREONING

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman Laboratory Director

Seed walk

Client Service contact: Cristina Araujo 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY

CO (CO00049), EPA 515.4 Provisional

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.

Test results relate only to samples analyzed.

SGS

1 of 30

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<b>4.6:</b> D81107-6: MRE-01-A124H-WC-P	12
<b>4.7:</b> D81107-7: MRE-01-B124H-WC-P	13
<b>4.8:</b> D81107-8: MRE-01-B121-TF-P	14
<b>4.9:</b> D81107-9: MRE-01-B108-DW-P	15
<b>4.10:</b> D81107-10: MRE-01-B153-DW-P	16
Section 5: Misc. Forms	<b>17</b>
5.1: Chain of Custody	18
Section 6: Metals Analysis - QC Data Summaries	
<b>6.1:</b> Inst QC MA7182: Pb	21
<b>6.2:</b> Prep QC MP18359: Pb	



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### **Sample Summary**

Job No:

D81107

PARS Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ Project No: MRE

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
D81107-1	03/24/16	09:48 MK	03/25/16	DW	Drinking Water	MRE-01-NUR-NS-P
D81107-2	03/24/16	09:53 MK	03/25/16	DW	Drinking Water	MRE-01-KIT-KC-P
D81107-3	03/24/16	10:00 MK	03/25/16	DW	Drinking Water	MRE-01-A121-TF-P
D81107-4	03/24/16	10:05 MK	03/25/16	DW	Drinking Water	MRE-01-A109-DW-P
D81107-5	03/24/16	10:09 MK	03/25/16	DW	Drinking Water	MRE-01-A145-DW-P
D81107-6	03/24/16	10:14 MK	03/25/16	DW	Drinking Water	MRE-01-A124H-WC-P
D81107-7	03/24/16	10:18 MK	03/25/16	DW	Drinking Water	MRE-01-B124H-WC-P
D81107-8	03/24/16	10:24 MK	03/25/16	DW	Drinking Water	MRE-01-B121-TF-P
D81107-9	03/24/16	10:28 MK	03/25/16	DW	Drinking Water	MRE-01-B108-DW-P
D81107-10	03/24/16	10:31 MK	03/25/16	DW	Drinking Water	MRE-01-B153-DW-P

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No D81107

Site: WWP Regional, West Windsor-Plainsboro, NJ Report Date 4/5/2016 2:28:13 PM

On 03/25/2016, 10 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.4 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D81107 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

#### Metals By Method EPA 200.8

Matrix DW Batch ID: MP18359

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81107-1MS, D81107-1MSD were used as the QC samples for the metals analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

SGS 4 of 30
ACCUTEST

**Summary of Hits Job Number:** D81107

**Account:** PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/24/16

Lead

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method				
D81107-1	MRE-01-NUR-NS	-P								
No hits reported	No hits reported in this sample.									
D81107-2	MRE-01-KIT-KC	-P								
Lead		0.00075	0.00050		mg/l	EPA 200.8				
D81107-3	MRE-01-A121-TF	-P								
No hits reported	in this sample.									
D81107-4	MRE-01-A109-DV	V-P								
Lead		0.00056	0.00050		mg/l	EPA 200.8				
D81107-5	MRE-01-A145-DV	V-P								
No hits reported	in this sample.									
D81107-6	MRE-01-A124H-V	VC-P								
No hits reported	in this sample.									
D81107-7	MRE-01-B124H-V	VC-P								
Lead		0.00058	0.00050		mg/l	EPA 200.8				
D81107-8	MRE-01-B121-TF	-P								
No hits reported	in this sample.									
D81107-9	MRE-01-B108-DV	V-P								
Lead		0.00069	0.00050		mg/l	EPA 200.8				
D81107-10	MRE-01-B153-DV	V-P								

0.00050

0.0020

EPA 200.8

mg/l



### Section 4

### -

#### **Report of Analysis**

Client Sample ID: MRE-01-NUR-NS-P

Lab Sample ID:D81107-1Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	04/01/16	04/05/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7182(2) Prep QC Batch: MP18359

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: MRE-01-KIT-KC-P

Lab Sample ID:D81107-2Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.00075	0.015	0.0005	50 mg/l	1	04/01/16	04/05/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7182(2) Prep QC Batch: MP18359

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



#### **Report of Analysis**

Client Sample ID: MRE-01-A121-TF-P

Lab Sample ID:D81107-3Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	60 mg/l	1	04/01/16	04/05/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7182(2) Prep QC Batch: MP18359

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: MRE-01-A109-DW-P

Lab Sample ID:D81107-4Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.00056	0.015	0.0005	0 mg/1	1	04/01/16	04/05/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7182(2) Prep QC Batch: MP18359

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



#### :

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### **Report of Analysis**

Client Sample ID: MRE-01-A145-DW-P

Lab Sample ID:D81107-5Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	0 mg/l	1	04/01/16	04/05/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

Instrument QC Batch: MA7182
 Prep QC Batch: MP18359

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

#### **Report of Analysis**

Client Sample ID: MRE-01-A124H-WC-P

Lab Sample ID:D81107-6Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	60 mg/l	1	04/01/16	04/05/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

Instrument QC Batch: MA7182
 Prep QC Batch: MP18359

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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#### **Report of Analysis**

Client Sample ID: MRE-01-B124H-WC-P

Lab Sample ID:D81107-7Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.00058	0.015	0.0005	0 mg/1	1	04/01/16	04/05/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7182(2) Prep QC Batch: MP18359

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



#### **Report of Analysis**

Client Sample ID: MRE-01-B121-TF-P

Lab Sample ID:D81107-8Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	0 mg/l	1	04/01/16	04/05/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7182(2) Prep QC Batch: MP18359

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: MRE-01-B108-DW-P

Lab Sample ID:D81107-9Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.00069	0.015	0.00050	0 mg/1	1	04/01/16	04/05/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7182(2) Prep QC Batch: MP18359

RL = Reporting Limit



#### **Report of Analysis**

Client Sample ID: MRE-01-B153-DW-P

Lab Sample ID:D81107-10Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0020	0.015	0.0005	0 mg/1	1	04/01/16	04/05/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7182(2) Prep QC Batch: MP18359

RL = Reporting Limit





### Section 5

Custody Document	ts and Other Forms
Includes the following	g where applicable:



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**D81107:** Chain of Custody Page 1 of 2

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#### **SGS Accutest Sample Receipt Summary**

Comments

Job Number: D81107 Cli	ent: PARS	Project: WWP REGIONAL	MRE
Date / Time Received: 3/25/2016 11:30:00 AM	Delivery Method:	Airbill #'s: fx	
Cooler Temps (Initial/Adjusted): #1: (2.4/2.4);			
1. Gustouy Seals Fleselli.	DC Present:	1. Sample Integrity - Documentation 1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:  Sample Integrity - Condition 1. Sample recvd within HT: 2. All containers accounted for: 3. Condition of sample:	Y or N  ✓ □  ✓ □  ✓ □  ✓ □  ✓ □  ✓ □  ✓ □  ✓
A VOCs headspace free:		Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis: 4. Compositing instructions clear: 5. Filtering instructions clear:	Y or N N/A  V

**D81107:** Chain of Custody

Page 2 of 2



Section 6

#### Metals Analysis

#### QC Data Summaries

#### Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: D81107 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7182

Date Analyzed: 04/05/16 Methods: EPA 200.8 File ID: PA040416DW.REP

Analyst: RM Parameters: Pb

Time	Sample Description	Dilution PS Factor Recov	Comments
09:42	MA7182-STD1	1	STDBLK
09:45	MA7182-STD2	1	STD1
09:48	MA7182-STD3	1	STD2
09:51	MA7182-STD4	1	STD3
09:54	MA7182-CRI1	1	
09:57	MA7182-ICV1	1	
10:00	MA7182-ICB1	1	
10:03	MA7182-CCV1	1	
10:06	MA7182-CCB1	1	
10:09	MP18359-MB1	1	
10:12	MP18359-B1	1	
10:16	D81107-1	1	
10:19	MP18359-S1	1	
10:22	MP18359-S2	1	
10:25	D81107-2	1	
10:28	D81107-3	1	
10:31	D81107-4	1	
10:34	D81107-5	1	
10:37	MA7182-CCV2	1	
10:40	MA7182-CCB2	1	
10:43	D81107-6	1	
10:47	D81107-7	1	
10:50	D81107-8	1	
10:53	D81107-9	1	
Last r	D81107-10 reportable sample MA7182-CCV3	1 e/prep for job D811 1	07
11:02	MA7182-CCB3	1	

---->

Last reportable CCB for job D81107 Refer to raw data for calibration curve and standards.

**ACCUTEST** 

#### INTERNAL STANDARD SUMMARY

### Login Number: D81107 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7182

File ID: PA040416DW.REP Date Analyzed: 04/05/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

Sample Description Time Istd#1 Istd#2 417554 R 434791 R 09:42 MA7182-STD1 09:45 MA7182-STD2 399793 420384 401380 09:48 MA7182-STD3 401484 09:51 MA7182-STD4 382096 394753 09:54 MA7182-CRI1 379276 390574 09:57 MA7182-ICV1 390135 394546 10:00 MA7182-ICB1 382371 389910 10:03 MA7182-CCV1 389444 381312 10:06 MA7182-CCB1 379725 386595 10:09 MP18359-MB1 375566 368006 10:12 MP18359-B1 370943 357574 10:16 D81107-1 358471 342555 10:19 MP18359-S1 362401 344710 10:22 MP18359-S2 361257 345219 10:25 D81107-2 353747 337549 10:28 D81107-3 351663 333304 10:31 D81107-4 343017 326267 10:34 D81107-5 360237 341928 10:37 MA7182-CCV2 396469 381373 10:40 MA7182-CCB2 378709 379850 10:43 D81107-6 350378 329781 10:47 D81107-7 329712 343745 10:50 D81107-8 351305 328050 10:53 D81107-9 351196 332258 10:56 D81107-10 351732 335005 10:59 MA7182-CCV3 396667 378523 11:02 MA7182-CCB3 371230 369368

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

 Istd#
 Parameter
 Limits

 Istd#1
 Yttrium
 60-125 %

 Istd#2
 Bismuth
 60-125 %

# BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81107
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA040416DW.REP Date Analyzed: 04/05/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7182 Units: ug/l

Time: Sample ID: Metal	RL	IDL	10:00 ICB1 raw	final	10:06 CCB1 raw	final	10:40 CCB2 raw	final	11:02 CCB3 raw	final
Copper	2.0	.06								
Lead	0.50	.0079	0.0040	<0.50	0.0030	<0.50	0.0080	<0.50	0.0050	<0.50

(\*) Outside of QC limits
(anr) Analyte not requested

### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81107

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA040416DW.REP Date Analyzed: 04/05/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery

Run ID: MA7182 Units: ug/l

Time: Sample ID: Metal	ICV True	09:57 ICV1 Results	% Rec	CCV True	10:03 CCV1 Results	% Rec	CCV True	10:37 CCV2 Results	% Rec
Copper									

(\*) Outside of QC limits (anr) Analyte not requested

# 6.1.3

# CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81107
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA040416DW.REP Date Analyzed: 04/05/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery Run ID: MA7182 Units: ug/l

Time:		10:59	
Sample ID:	CCV	CCV3	
Metal	True	Results	% Rec

(\*) Outside of QC limits
(anr) Analyte not requested

### LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: D81107
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA040416DW.REP Date Analyzed: 04/05/16 Methods: EPA 200.8 QC Limits: 50 to 150 % Recovery Run ID: MA7182 Units: ug/1

Time: Sample ID: Metal	CRI True	CRIA True	09:54 CRI1 Results	% Rec
Copper	2.0	2.0		
Lead	0.50	0.50	0.53	106.0

(\*) Outside of QC limits
(anr) Analyte not requested

\_\_\_\_

### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D81107

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18359 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/01/16

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000009	0<0.00050

Associated samples MP18359: D81107-1, D81107-2, D81107-3, D81107-4, D81107-5, D81107-6, D81107-7, D81107-8, D81107-9, D81107-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

\_\_\_\_

# 6.2.2

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81107
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18359 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/01/16

Metal	D81107-1 Original MS	Spikelot ICPALL2 % Rec
per		
Lead	0.00022 0.18	0.20 89.9

Associated samples MP18359: D81107-1, D81107-2, D81107-3, D81107-4, D81107-5, D81107-6, D81107-7, D81107-8, D81107-9, D81107-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

# 6.2.2 6

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81107 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18359 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/01/16

Metal	D81107-1 Original MSD	Spikelot ICPALL2 % Rec	MSD QC RPD Li
Copper			
Lead	0.00022 0.18	0.20 89.9	0.0 20

Associated samples MP18359: D81107-1, D81107-2, D81107-3, D81107-4, D81107-5, D81107-6, D81107-7, D81107-7 8, D81107-9, D81107-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

# 6.2.3

### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81107
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18359 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/01/16

Metal	BSP Result	Spikelot ICPALL2		QC Limits
Copper				
Lead	0.20	0.20	100.0	85-115

Associated samples MP18359: D81107-1, D81107-2, D81107-3, D81107-4, D81107-5, D81107-6, D81107-7, D81107-8, D81107-9, D81107-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

30 of 30
ACCUTEST
D81107





# APPENDIX B LABORATORY CERTIFICATION

# State of New Jersey Department of Environmental Protection Certifies That

SGS Accutest Inc. — Wheat Ridge Laboratory Certification ID # CO007

is hereby approved as a

Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq. Regulations Governing the Certification of

having been found compliant with the 2009 TNI Standard approved by the The NELAC Institute

Expires June 30, 2016

TANIA PRECOGNITATION RESTAURANT

Mulum M. Potte fully
Joseph F. Aiello
Assistant Director



NJDEP is a NELAP Recognized Accreditation Body

# New Jersey Department of Environmental Protection National Environmental Laboratory Accreditation Program

# National Environmental Laboratory Accreditation Frogram ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS Effective as of 01/14/2016 until 06/30/2016

4036 YOUNGFIELD ST Laboratory Name: SGS ACCUTEST INC. - WHEAT RIDGE Laboratory Number: CO007 Activity ID: NLC150001



Category: DW07 -- Metals - ICP, ICP/MS and DCP Eligible to WHEAT RIDGE, CO 80033

	Report	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Ves	ET.	DW07.00070	DW	ICP/MS	[EPA 200.8]	Arsenic
Certified	Yes	F	DW07.90080	DW	ICP	[EPA 200.7]	Barum
Certified	Yes	E P	DW07_00110	DW	ICP/MS	[EPA 200.8]	Barton
Certified	Yes	TU	DW07_00150	DW	ICP/MS	[EPA 200.8]	Codmin
Certified	Yes	TU	DW07_00190	DW	ICP/MS	[EPA 200.8]	Calcium
Certified	Yes	TP	DW07_00200	DW	ICP	[EPA 200.7]	Calcium
Certified	Yes	U	DW07,00240	DW	ICP	[EPA 200.7]	Chromina
Certified	Yes	T	DW07.00270	DW	ICP/MS	[EPA 200.8]	Citotulan
Certified	Yes	IN	DW07.00300	DW	ICP	[EPA 200.7]	copper
Certified	Yes	U	DW07.00330	DW	ICP/MS	[EPA 200.8]	copper
Certified	Yes	III	DW07.00340	DW	ICP	[EPA 200.7]	1024
Certified	Yes	Ш	DW07.00380	DW	ICP/MS	[EFA 200.8]	Magnesium
Certified	Yes	III	DW07_00400	DW	ICP	EFFA 200.7]	Manoanese
Certified	Yes	UT	DW07.00430	DW	Q	[EFA 200.7]	Manoancec
Certified	Yes	UT	DW07.00460	DW	ICP/MS	[EFA 200.8]	Molehdamm
Certified	Yes	TU	DW07.00490	DW	ICP/MS	[EFA 200.8]	Nicted
Certified	Yes	II.	DW07_00500	DW	CP	[EFA 200.7]	Nickel
Certified	Yes	UT	DW07_00530	DW	ICP/MS	[EFA 200.8]	Potaccium
Certified	Yes	T	DW07.00540	DW	P	[EFA 200.7]	Solonium
Certified	Yes	T	DW07_00560	DW	ICP/MS	[EPA 200.8]	Cilvar
Certified	Yes	TU	DW07_00600	DW	JCP	[EPA 200.7]	Silver
Certified	Yes	TU	DW07,00630	DW	ICP/MS	[EPA 200.8]	Sodium
Certified	Yes	Ę	DW07.00640	DW	ICP	[EPA 200.7]	Thelliam
Certified	Yes	H	DW07,00670	DW	ICP/MS	[EPA 200.8]	Transium
Certified	Yes	F	DW07.00740	DW	ICP/MS	[EFA 200 8]	Vanadium
Certified	Yes	TP	DW07,00760	DW	. ICP/MS	[EFA 200.8]	7 inc
Certified	Yes	UJ.	DW07_00770	DW	iQ.	[LEBY 200 6]	Zinc
Certified	Yes	TI	DW07_00800	DW	ICP/NIS	EFFY Zonio	

KEY. AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials



# LEAD IN DRINKING WATER TESTING REPORT

WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT TOWN CENTER ELEMENTARY SCHOOL 700 WYNDHURST DRIVE PLAINSBORO, NEW JERSEY 08536

### PREPARED FOR

West Windsor-Plainsboro Regional School District 505 Village Road West PO Box 505 West Windsor, New Jersey 08550

### PREPARED BY

PARS Environmental, Inc. 500 Horizon Drive, Suite 540 Robbinsville, New Jersey 08691

Tel: 609-890-7277 Fax: 609-890-9116

PARS Project No. 565-84

**April 2016** 



LABORATORY CERTIFICATION

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT TOWN CENTER ELEMENTARY SCHOOL APRIL 2016

**PARS** 

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**PARS** 

## **EXECUTIVE SUMMARY**

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Town Center Elementary School (TCES). PARS conducted the lead in drinking water testing on March 24, 2016. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the United States Environmental Protection Agency (USEPA) 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (USEPA 3Ts). PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

# **FINDINGS**

The USEPA National Primary Drinking Water Regulations requires that immediate action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 milligrams per liter (mg/l). Exceedance of the 0.015 mg/l action level was not identified in TCES. A total of 15 water samples were collected and analyzed.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.



**PARS** 

## 1.0 INTRODUCTION

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Town Center Elementary School (TCES). The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the *USEPA 3Ts*. PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

Sampling methodology is described in Section 2.0, the Lead in Drinking Water Findings are discussed in Section 3.0, and the Conclusions and Recommendations are presented in Section 4.0. A list of the sample locations and results are provided in **Table 1**. The Laboratory Analytical Report and Laboratory NELAC Certification are provided in **Appendix A** and **B**, respectively.

This report is intended for the sole use of WWP. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations, is at risk of said user.



**PARS** 

# 2.0 LEAD IN DRINKING WATER SAMPLING

PARS conducted lead in drinking water testing at the TCES on March 24, 2016. The lead in drinking water sampling was conducted by Christa Casciolini and Melissa Konieczny of PARS.

PARS performed lead in drinking water testing at a total of 12 drinking water fountains (bubbler and cooler units) and three (3) faucets in the nurse's office, kitchen, and classroom locations in the elementary school.

All samples were collected following the USEPA First Draw sampling protocol. The First Draw sample collection occurred in the morning prior to the facility opening and before any water was drawn in the building, including toilet flushing. The water was unused for six (6) to eight (8) hours prior to collection. Arrangements were made to sample the water outlets prior to the arrival of teachers and students.

The samples were placed in pre-preserved plastic bottles and submitted for laboratory analysis to SGS Accutest for two-week turnaround. SGS Accutest is a New Jersey Department of Environmental Protection (NJDEP) certified laboratory for lead in drinking water (NELAC #CO007). All samples were analyzed using USEPA Method 200.8 for the determination of trace elements in waters and wastes by inductively coupled plasma – mass spectrometry (ICP-MS). Chain-of-custody protocols were followed.



**PARS** 

# 3.0 LEAD IN DRINKING WATER FINDINGS

Based on the laboratory analytical results, lead concentrations exceeding 0.015 mg/l action level were not identified in the 15 water samples collected at TCES.

Lead in drinking water tabulated results for the TCES are provided in **Table 1**. The laboratory analytical report is included in **Appendix A.** The laboratory certification is included in **Appendix B**.

**PARS** 

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

A total of 12 drinking water fountains and three (3) faucets in the nurse's office, kitchen, and classroom locations were tested at the TCES. The USEPA recommends that action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 mg/l. None of the 15 outlets sampled in the TCES exceeded the 0.015 mg/l action level.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.

-000-

PARS appreciates the opportunity to assist West Windsor-Plainsboro Regional School District with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

PARS ENVIRONMENTAL, INC.

Chate Cala

Christa M. Casciolini Project Geologist Margaret Halasnik

Principal Industrial Hygienist

Pargaret Halasii



# **\***

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT TOWN CENTER ELEMENTARY SCHOOL APRIL 2016

# TABLE 1 DRINKING WATER RESULTS TABLE

### TABLE 1

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT TOWN CENTER ELEMENTARY SCHOOL APRIL 2016

All samples are primary (first draw) samples. All faucets sampled are cold water, unless noted. EPA Action limit = 0.015 milligrams per liter (mg/l)

School:	Town Center Ele	ementary									
Sampling Date:	3/24/2016										
Exceeds EPA Action Limit ( > 0.015 mg/l)											
Hit = result > 0.00050 detection limit											
Accutest Mountain States										A	pr 05, 2016 15:22 pm
Job Number:	D81109										
Account:	PARS Environm	ental Services									
Project:	WWP Regional,	West Windsor-Plainsl	boro, NJ								
Project Number:	TCE										
										Legend:	Hit
Client Sample ID:		TCE-01-A40-NS-P	TCE-01-A71-KC-P	TCE-01-A90-CF-P	TCE-01-B103-DW-P	TCE-01-B106-DW-P	TCE-01-T21-T20- WC-P	TCE-01-B109-DW-P	TCE-02-B217-DW-P	TCE-02-T32-T31- WC-P	TCE-02-B209-DW-P
Lab Sample ID:		D81109-1	D81109-2	D81109-3	D81109-4	D81109-5	D81109-6	D81109-7	D81109-8	D81109-9	D81109-10
Date Sampled:		3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis											
Lead	mg/l	< 0.00050	0.00066	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Client Sample ID:		TCE-01-T5-T8-WC-P	TCE-01-T7-WC-P	TCE-01-B116-DW-P	TCE-02-B218-DW-P	TCE-02-B205-DW-P					
Lab Sample ID:		D81109-11	D81109-12	D81109-13	D81109-14	D81109-15					
Date Sampled:		3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016					
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water					
Metals Analysis											
Lead	mg/l	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050					

Client Sample ID Format: School-Floor-Room-Outlet-Sample Type Sample Type: Floor: Room: Outlet: 01 = First floor ### = Room number ### BF = Bathroom faucet P = Primary (first draw) sample 02 = Second floor ###-### = Sample between room number ### and room # CF = Classroom faucet F = Flush sample H### = Hallway by room number ### DW= Drinking water bubbler BL = Boy's locker room EC = Home economics room, cold CAF = Cafeteria KC = Kitchen faucet, cold FR = Faculty room LC = Lounge faucet, cold GL = Girl's locker room NS = Nurse's office sink KIT = Kitchen WC = Water cooler (chiller unit) MGYM = Main gym TF or TS = Teacher's faucet or Teacher's sink MO = Main office NUR = Nurse's office SGYM = Small gym TGL = Team girl's locker room TL = Teacher's lounge TP = Teacher's prep room PLR = Pool Locker room



# 

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT TOWN CENTER ELEMENTARY SCHOOL APRIL 2016

# APPENDIX A LABORATORY ANALYTICAL REPORT



# **ACCUTEST**Mountain State

04/05/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

# Technical Report for

### **PARS** Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ

**TCE** 

SGS Accutest Job Number: D81109

Sampling Date: 03/24/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 ccasciolini@ParsEnviro.com

ATTN: Crista Casciolini

Total number of pages in report: 48

TNI LABORATOR

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman Laboratory Director

Seed walk

Client Service contact: Cristina Araujo 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY

CO (CO00049), EPA 515.4 Provisional

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.

Test results relate only to samples analyzed.

SGS

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# **Sample Summary**

Job No:

D81109

PARS Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ Project No: TCE

Sample Number	Collected Date	Time	Ву	Received	Matri Code		Client Sample ID
D81109-1	03/24/16	07:16	MK/C	003/25/16	DW	Drinking Water	TCE-01-A40-NS-P
D81109-2	03/24/16	07:21	MK/C	003/25/16	DW	Drinking Water	TCE-01-A71-KC-P
D81109-3	03/24/16	07:31	MK/C	03/25/16	DW	Drinking Water	TCE-01-A90-CF-P
D81109-4	03/24/16	07:39	MK/C	003/25/16	DW	Drinking Water	TCE-01-B103-DW-P
D81109-5	03/24/16	07:42	MK/C	003/25/16	DW	Drinking Water	TCE-01-B106-DW-P
D81109-6	03/24/16	07:45	MK/C	003/25/16	DW	Drinking Water	TCE-01-T21-T20-WC-P
D81109-7	03/24/16	07:49	MK/C	003/25/16	DW	Drinking Water	TCE-01-B109-DW-P
D81109-8	03/24/16	07:54	MK/C	003/25/16	DW	Drinking Water	TCE-02-B217-DW-P
D81109-9	03/24/16	07:57	MK/C	003/25/16	DW	Drinking Water	TCE-02-T32-T31-WC-P
D81109-10	03/24/16	08:01	MK/C	003/25/16	DW	Drinking Water	TCE-02-B209-DW-P
D81109-11	03/24/16	07:22	MK/C	03/25/16	DW	Drinking Water	TCE-01-T5-T8-WC-P
D81109-12	03/24/16	07:32	MK/C	003/25/16	DW	Drinking Water	TCE-01-T7-WC-P
D81109-13	03/24/16	07:49	MK/C	03/25/16	DW	Drinking Water	TCE-01-B116-DW-P



# Sample Summary (continued)

PARS Environmental Services

D81109 Job No:

WWP Regional, West Windsor-Plainsboro, NJ Project No: TCE

Sample	Collected			Matr	ix	Client	
Number	Date	Time By	Received	Code	Type	Sample ID	
D81109-14	03/24/16	07:55 MK/C	03/25/16	DW	Drinking Water	TCE-02-B218-DW-P	
D81109-15	03/24/16	08:02 MK/C	$\frac{(03/25/16)}{(10.5)^{11}}$	DW	Drinking Water	TCE-02-B205-DW-P	

### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No D81109

Site: WWP Regional, West Windsor-Plainsboro, NJ Report Date 4/5/2016 2:29:41 PM

On 03/25/2016, 15 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.4 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D81109 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### Metals By Method EPA 200.8

Matrix DW Batch ID: MP18361

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81109-1MS, D81109-1MSD were used as the QC samples for the metals analysis.

Matrix DW Batch ID: MP18362

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81109-11MS, D81109-11MSD were used as the QC samples for the metals analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

SGS 5 of 48
ACCUTEST

**Summary of Hits Job Number:** D81109

**Account:** PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/24/16

Lab Sample ID Client Sample ID Result/
Analyte Qual RL MDL Units Method

D81109-1 TCE-01-A40-NS-P

No hits reported in this sample.

D81109-2 TCE-01-A71-KC-P

Lead 0.00066 0.00050 mg/l EPA 200.8

D81109-3 TCE-01-A90-CF-P

No hits reported in this sample.

D81109-4 TCE-01-B103-DW-P

No hits reported in this sample.

D81109-5 TCE-01-B106-DW-P

No hits reported in this sample.

D81109-6 TCE-01-T21-T20-WC-P

No hits reported in this sample.

D81109-7 TCE-01-B109-DW-P

No hits reported in this sample.

D81109-8 TCE-02-B217-DW-P

No hits reported in this sample.

D81109-9 TCE-02-T32-T31-WC-P

No hits reported in this sample.

D81109-10 TCE-02-B209-DW-P

No hits reported in this sample.

D81109-11 TCE-01-T5-T8-WC-P

No hits reported in this sample.

Page 2 of 2

**Summary of Hits Job Number:** D81109

**Account:** PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/24/16

Lab Sample ID Client Sample ID Result/ Analyte Qual RL MDL Units Method

D81109-12 TCE-01-T7-WC-P

No hits reported in this sample.

D81109-13 TCE-01-B116-DW-P

No hits reported in this sample.

D81109-14 TCE-02-B218-DW-P

No hits reported in this sample.

D81109-15 TCE-02-B205-DW-P

No hits reported in this sample.



# Section 4

Sample Results		
Report of Analysis		

# Report of Analysis

Client Sample ID: TCE-01-A40-NS-P

Lab Sample ID:D81109-1Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

## **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18361

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



# **Report of Analysis**

Client Sample ID: TCE-01-A71-KC-P

Lab Sample ID:D81109-2Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

## **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.00066	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18361

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



# **Report of Analysis**

Client Sample ID: TCE-01-A90-CF-P

Lab Sample ID:D81109-3Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

## **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18361

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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# **Report of Analysis**

Client Sample ID: TCE-01-B103-DW-P

Lab Sample ID:D81109-4Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

## **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18361

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



**ACCUTEST** 



# **Report of Analysis**

Client Sample ID: TCE-01-B106-DW-P

Lab Sample ID:D81109-5Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

## **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.00050	0 mg/1	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18361

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



# **Report of Analysis**

Client Sample ID: TCE-01-T21-T20-WC-P

Lab Sample ID:D81109-6Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

## **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18361

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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# **Report of Analysis**

Client Sample ID: TCE-01-B109-DW-P

Lab Sample ID:D81109-7Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

## **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18361

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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### **Report of Analysis**

Client Sample ID: TCE-02-B217-DW-P

Lab Sample ID:D81109-8Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18361

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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Page 1 of 1

### **Report of Analysis**

Client Sample ID: TCE-02-T32-T31-WC-P

Lab Sample ID:D81109-9Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18361

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

### **Report of Analysis**

Client Sample ID: TCE-02-B209-DW-P

Lab Sample ID:D81109-10Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18361

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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### **Report of Analysis**

Client Sample ID: TCE-01-T5-T8-WC-P

Lab Sample ID:D81109-11Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18362

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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### **Report of Analysis**

Client Sample ID: TCE-01-T7-WC-P Lab Sample ID: D81109-12

Lab Sample ID:D81109-12Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16

Percent Solids: n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18362

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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### **Report of Analysis**

Client Sample ID: TCE-01-B116-DW-P

Lab Sample ID: D81109-13 **Date Sampled:** 03/24/16 Matrix: DW - Drinking Water **Date Received:** 03/25/16 Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177 (2) Prep QC Batch: MP18362

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

### **Report of Analysis**

Client Sample ID: TCE-02-B218-DW-P

Lab Sample ID:D81109-14Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18362

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



### **Report of Analysis**

Client Sample ID: TCE-02-B205-DW-P

Lab Sample ID: D81109-15 **Date Sampled:** 03/24/16 Matrix: **Date Received:** 03/25/16 DW - Drinking Water Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177 (2) Prep QC Batch: MP18362

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

**ACCUTEST** 



Section 5

Custody	Documents and Other Forms
Includes	the following where applicable:

### CHAIN OF CUSTODY

PAGE	1_	OF	2

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D81109: Chain of Custody
Page 1 of 3

### CHAIN OF CUSTODY

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**D81109:** Chain of Custody

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### **SGS Accutest Sample Receipt Summary**

Comments

Job Number: D811	09 Client:	PARS	Project: WWP REGIONA	L WE
Date / Time Received: 3/25/	2016 11:30:00 AM	Delivery Method:	Airbill #'s: fx	
Cooler Temps (Initial/Adjusted	d): #1: (2.4/2.4);			
Cooler Security  1. Custody Seals Present: 2. Custody Seals Intact:  Cooler Temperature  1. Temp criteria achieved: 2. Cooler temp verification: 3. Cooler media: 4. No. Coolers:	or N		Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:  Sample Integrity - Condition  1. Sample recvd within HT: 2. All containers accounted for:	Y or N  ✓ □  ✓ □  ✓ □  Y or N  ✓ □  ✓ □  ✓ □
Quality Control Preservation  1. Trip Blank present / cooler:  2. Trip Blank listed on COC:  3. Samples preserved properly:  4. VOCs headspace free:	Y or N N/A		3. Condition of sample:  Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis: 4. Compositing instructions clear: 5. Filtering instructions clear:	Intact

**D81109: Chain of Custody** 

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Section 6

### Metals Analysis

### QC Data Summaries

### Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

### SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81109 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7177

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

Parameters: Pb									
Time	Sample Description	Dilution Factor	PS Recov	Comments					
02:41	MA7177-STD1	1		STDBLK					
02:44	MA7177-STD2	1		STD1					
02:47	MA7177-STD3	1		STD2					
02:50	MA7177-STD4	1		STD3					
02:53	MA7177-CRI1	1							
02:56	MA7177-ICV1	1							
03:00	MA7177-ICB1	1							
03:03	MA7177-CCV1	1							
03:06	MA7177-CCB1	1							
03:09	MP18359-MB1	1							
03:12	MP18359-B1	1							
03:15	D81107-1	1		(sample used for QC only; not part of login D81109)					
03:18	MP18359-S1	1							
03:21	MP18359-S2	1							
03:24	ZZZZZZ	1							
03:27	ZZZZZZ	1							
03:30	ZZZZZZ	1							
03:33	ZZZZZZ	1							
03:37	MA7177-CCV2	1							
03:40	MA7177-CCB2	1							
03:43	ZZZZZZ	1							
	ZZZZZZ	1							
03:49	ZZZZZZ	1							
	ZZZZZZ	1							
	ZZZZZZ	1							
	MP18360-MB1	1							
	MP18360-B1	1							
	D81108-1	1		(sample used for QC only; not part of login D81109)					
	MP18360-S1	1							
	MP18360-S2	1							
	MA7177-CCV3	1							
	MA7177-CCB3	1							
04:20	ZZZZZZ	1							



### SGS Accutest Instrument Runlog Inorganics Analyses

### Login Number: D81109 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Analyst: RM Date Analyzed: 04/02/16 Methods: EPA 200.8 Run ID: MA7177

AHAT:	yst.	LCIAI	
Para	nete	rs:	Pb

Parameters: Pb								
Time	Sample Description	Dilution Factor	PS Recov	Comments				
04:23	ZZZZZZ	1						
04:26	ZZZZZZ	1						
04:29	ZZZZZZ	1						
04:32	ZZZZZZ	1						
04:35	ZZZZZZ	1						
04:38	ZZZZZZ	1						
04:41	ZZZZZZ	1						
04:44	ZZZZZZ	1						
04:47	MP18361-MB1	1						
04:50	MA7177-CCV4	1						
04:53	MA7177-CCB4	1						
04:56	MP18361-B1	1						
04:59	D81109-1	1						
05:02	MP18361-S1	1						
05:06	MP18361-S2	1						
05:09	D81109-2	1						
05:12	D81109-3	1						
05:15	D81109-4	1						
05:18	D81109-5	1						
05:21	D81109-6	1						
05:24	D81109-7	1						
05:27	MA7177-CCV5	1						
05:30	MA7177-CCB5	1						
05:33	D81109-8	1						
05:36	D81109-9	1						
05:39	D81109-10	1						
05:42	MP18362-MB1	1						
05:45	MP18362-B1	1						
05:48	D81109-11	1						
05:51	MP18362-S1	1						
05:54	MP18362-S2	1						
05:58	D81109-12	1						
06:01	D81109-13	1						

ACCUTEST

### SGS Accutest Instrument Runlog Inorganics Analyses

Login Number: D81109
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7177

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

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Time	Sample Description	Dilution PS Factor Recov Comments
06:04	MA7177-CCV6	1
06:07	MA7177-CCB6	1
06:10	D81109-14	1
Last r	D81109-15 eportable sample MA7177-CCV7	1 /prep for job D81109 1
	eportable CCB fo	1 r job D81109 calibration curve and standards.

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### INTERNAL STANDARD SUMMARY

### Login Number: D81109 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8 Run ID: MA7177

Analyst: RM

	meters: Pb		Rull ID. PIA/I//
Time	Sample Description	Istd#1	Istd#2
02:41	MA7177-STD1	515905 R	546334 R
02:44	MA7177-STD2	512088	537621
02:47	MA7177-STD3	511431	522567
02:50	MA7177-STD4	487931	525334
02:53	MA7177-CRI1	485080	519963
02:56	MA7177-ICV1	502676	516834
03:00	MA7177-ICB1	503621	533020
03:03	MA7177-CCV1	509992	528213
03:06	MA7177-CCB1	491288	520066
03:09	MP18359-MB1	460831	502540
03:12	MP18359-B1	470414	513304
03:15	D81107-1	462512	488224
03:18	MP18359-S1	477860	504986
03:21	MP18359-S2	471183	488929
03:24	ZZZZZZ	464331	482286
03:27	ZZZZZZ	470919	490784
03:30	ZZZZZZ	468416	490835
03:33	ZZZZZZ	467715	487475
03:37	MA7177-CCV2	506433	516889
03:40	MA7177-CCB2	492186	519083
03:43	ZZZZZZ	450264	473504
03:46	ZZZZZZ	452939	472511
03:49	ZZZZZZ	469553	484358
03:52	ZZZZZZ	459441	482503
03:55	ZZZZZZ	468164	488646
03:58	MP18360-MB1	461252	502144
04:01	MP18360-B1	458394	503154
04:04	D81108-1	453598	472654
04:07	MP18360-S1	472207	493681
04:10	MP18360-S2	463824	488050
04:13	MA7177-CCV3	511489	525286
04:16	MA7177-CCB3	494149	529387
04:20	ZZZZZZ	458037	471887

### INTERNAL STANDARD SUMMARY

### Login Number: D81109 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Analyst: RM Date Analyzed: 04/02/16 Methods: EPA 200.8 Run ID: MA7177

Parameters: Pb

Time	Sample Description	Istd#1	Istd#2
04:23	ZZZZZZ		477689
04:26	ZZZZZZ	452703	472285
04:29	ZZZZZZ	447063	469022
04:32	ZZZZZZ	452751	475847
04:35	ZZZZZZ	460814	482276
04:38	ZZZZZZ	454298	469128
04:41	ZZZZZZ	461396	484284
04:44	ZZZZZZ	459777	485582
04:47	MP18361-MB1	463599	501354
04:50	MA7177-CCV4	511828	524730
04:53	MA7177-CCB4	496090	521130
04:56	MP18361-B1	458339	495602
04:59	D81109-1	453649	469398
05:02	MP18361-S1	446896	475031
05:06	MP18361-S2	461354	476404
05:09	D81109-2	452916	466493
05:12	D81109-3	450703	475866
05:15	D81109-4	450757	468906
05:18	D81109-5	445498	464868
05:21	D81109-6	447973	469994
05:24	D81109-7	451482	470346
05:27	MA7177-CCV5	494930	512120
05:30	MA7177-CCB5	490005	517626
05:33	D81109-8	457070	469928
05:36	D81109-9	450805	471734
05:39	D81109-10	448458	473838
05:42	MP18362-MB1	448436	486635
05:45	MP18362-B1	459615	492449
05:48	D81109-11	447697	465020
05:51	MP18362-S1	458302	480761
		454140	477392
05:54	MP18362-S2	454149	
	MP18362-S2 D81109-12		
05:58		440391	



### INTERNAL STANDARD SUMMARY

Login Number: D81109 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

Run	ID:	MA7177

Time	Sample Description	Istd#1	Istd#2
06:04	MA7177-CCV6	491183	499392
06:07	MA7177-CCB6	488514	515345
06:10	D81109-14	441976	456510
06:13	D81109-15	446766	461779
06:16	MA7177-CCV7	484927	499976
06:19	MA7177-CCB7	484703	505388
R = Re	ference for IST	D limits.	! = Outside limits.

### LEGEND:

<u>Istd#</u>	Parameter	<u>Limits</u>	
Istd#1	Yttrium	60-125	용
Istd#2	Bismuth	60-125	용

### BLANK RESULTS SUMMARY

Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81109

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7177 Units: ug/l

Time: Sample ID: Metal	RL	IDL	03:00 ICB1 raw	final	03:06 CCB1 raw	final	03:40 CCB2 raw	final	04:16 CCB3 raw	final
Copper	2.0	.06								
Lead	0.50	.0079	0.0030	<0.50	-0.0010	<0.50	0.0030	<0.50	0.0040	<0.50

### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81109

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7177 Units: ug/l

Time: Sample ID: Metal	RL	IDL	04:53 CCB4 raw	final	05:30 CCB5 raw	final	06:07 CCB6 raw	final	06:19 CCB7 raw	final
Copper	2.0	.06								
Lead	0.50	.0079	0.0010	<0.50	0.0020	<0.50	0.0040	<0.50	-0.0010	<0.50

### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81109

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/02/16 Methods: EPA 200.8 Run ID: MA7177

Units: ug/l

Time: Sample ID: Metal	ICV True	02:56 ICV1 Results	% Rec	CCV True	03:03 CCV1 Results	% Rec	CCV True	03:37 CCV2 Results	% Rec
Copper									
Lead	100	101	101.0	50	49.3	98.6	50	50.3	100.6

### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81109 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/02/16 Methods: EPA 200.8 Run ID: MA7177

Units: ug/l

Time: Sample ID: Metal	CCV True	04:13 CCV3 Results	% Rec	CCV True	04:50 CCV4 Results	% Rec	CCV True	05:27 CCV5 Results	% Rec
Copper									
Lead	50	48.6	97.2	50	49.1	98.2	50	50.1	100.2

### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81109

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery Run ID: MA7177 Units: ug/l

Time: Sample ID: Metal	CCV True	06:04 CCV6 Results	% Rec	CCV True	06:16 CCV7 Results	% Rec
Copper						
Lead	50	50.5	101.0	50	50.3	100.6

### LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: D81109
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8 QC Limits: 50 to 150 % Recovery Run ID: MA7177 Units: ug/1

Time: Sample ID: Metal	CRI True	CRIA True	02:53 CRI1 Results	% Rec
Copper	2.0	2.0		
Lead	0.50	0.50	0.50	100.0

### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D81109

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18361 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

03/31/16

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000017	<0.00050

Associated samples MP18361: D81109-1, D81109-2, D81109-3, D81109-4, D81109-5, D81109-6, D81109-7, D81109-8, D81109-9, D81109-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

# 6.2.2 6

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81109 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18361 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

03/31/16

Associated samples MP18361: D81109-1, D81109-2, D81109-3, D81109-4, D81109-5, D81109-6, D81109-7, D81109-8, D81109-9, D81109-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

**ACCUTEST** 

# 6.2.2

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81109 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18361 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

03/31/16

Metal	D81109-1 Original MSD	Spikelot ICPALL2 % Rec	MSD QO RPD L
Copper			
Lead	0.00027 0.18	0.20 89.9	0.0 2

Associated samples MP18361: D81109-1, D81109-2, D81109-3, D81109-4, D81109-5, D81109-6, D81109-7, D81109-7 8, D81109-9, D81109-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

**ACCUTEST** 

## 0.2.3

### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81109
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18361 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

03/31/16

Metal	BSP Result	Spikelot ICPALL2		QC Limits
Copper				
Lead	0.18	0.20	90.0	85-115

Associated samples MP18361: D81109-1, D81109-2, D81109-3, D81109-4, D81109-5, D81109-6, D81109-7, D81109-8, D81109-9, D81109-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

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ACCUTEST

### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D81109

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18362 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

03/31/16 Prep Date:

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000003	0<0.00050

Associated samples MP18362: D81109-11, D81109-12, D81109-13, D81109-14, D81109-15

 ${\tt Results} \, < \, {\tt IDL} \, \, {\tt are} \, \, {\tt shown} \, \, {\tt as} \, \, {\tt zero} \, \, {\tt for} \, \, {\tt calculation} \, \, {\tt purposes} \, \,$ (\*) Outside of QC limits (anr) Analyte not requested

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81109 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18362 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

03/31/16

Metal	D81109-11 Original MS	Spikelo ICPALL2		QC Limits
er				
Lead	0.000038 0.17	0.20	85.0	70-130

Associated samples MP18362: D81109-11, D81109-12, D81109-13, D81109-14, D81109-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

## 0.3.2

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81109
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18362 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

03/31/16

Metal	D81109-11 Original MSD	Spikelot ICPALL2 % Rec	MSD RPD	QC Limit
Copper				
Lead	0.000038 0.18	0.20 90.0	5.7	2.0

Associated samples MP18362: D81109-11, D81109-12, D81109-13, D81109-14, D81109-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81109 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18362 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

03/31/16

Metal	BSP Result	Spikelot ICPALL2		QC Limits
Copper				
Lead	0.18	0.20	90.0	85-115

Associated samples MP18362: D81109-11, D81109-12, D81109-13, D81109-14, D81109-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(anr) Analyte not requested



# 

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT TOWN CENTER ELEMENTARY SCHOOL APRIL 2016

# APPENDIX B LABORATORY CERTIFICATION

# State of New Jersey Department of Environmental Protection Certifies That

SGS Accutest Inc. — Wheat Ridge Laboratory Certification ID # CO007

is hereby approved as a

Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq. Regulations Governing the Certification of

having been found compliant with the 2009 TNI Standard approved by the The NELAC Institute

Expires June 30, 2016

TANIA PRECOGNITATION RESTAURANT

Mullim M. Potte A JH Joseph F. Aiello Assistant Director



NJDEP is a NELAP Recognized Accreditation Body

# National Environmental Laboratory Accreditation Program New Jersey Department of Environmental Protection

# ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS

Laboratory Name: SGS ACCUTEST INC. - WHEAT RIDGE Laboratory Number: CO007 Activity ID: NLC150001

Effective as of 01/14/2016 until 06/30/2016



Category: DW07 -- Metals - ICP, ICP/MS and DCP Eligible to

WHEAT RIDGE, CO 80033 4036 YOUNGFIELD ST

UT DW07.00340 DW  UT DW07.00340 DW  UT DW07.00380 DW  UT DW07.00440 DW  UT DW07.00440 DW  UT DW07.00490 DW  UT DW07.00590 DW  UT DW07.00590 DW  UT DW07.00540 DW  UT DW07.00540 DW  UT DW07.00540 DW  UT DW07.00540 DW  UT DW07.00540 DW  UT DW07.00540 DW  UT DW07.00540 DW  UT DW07.00540 DW  UT DW07.00540 DW	Status Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified	Report NJ Data Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		Code DW07.00070 DW07.90080 DW07.00110 DW07.00150 DW07.00200 DW07.00200 DW07.00270 DW07.00200 DW07.00200	Matrix DW DW DW DW DW DW DW DW DW DW DW DW DW	Technique Description ICP/MS ICP ICP/MS ICP/MS ICP/MS ICP ICP/MS ICP ICP ICP/MS ICP ICP/MS
DW DW DW DW DW DW DW DW DW DW DW DW DW D		E P		DW07_00190	DW	ICP/MS
DW07 00270 DW DW07 00300 DW DW07 00330 DW DW07 00330 DW DW07 00340 DW DW07 00380 DW DW07 00400 DW DW07 00400 DW DW07 00400 DW DW07 00500 DW DW07 00530 DW DW07 00540 DW DW07 00560 DW DW07 00660 DW DW07 00660 DW DW07 00670 DW DW07 00670 DW DW07 00670 DW DW07 00770 DW		person .	7	DW07.00240	DW	ICP
DW07 00300 DW  DW07 00330 DW  DW07 00330 DW  DW07 00340 DW  DW07 00400 DW  DW07 00400 DW  DW07 00400 DW  DW07 00400 DW  DW07 00500 DW  DW07 00500 DW  DW07 00540 DW  DW07 00560 DW  DW07 00660 DW  DW07 00660 DW  DW07 00670 DW  DW07 00670 DW  DW07 00670 DW	Yes		UT	DW07.00270	DW	ICP/MS
DW07.00330 DW  DW07.00340 DW  DW07.00380 DW  DW07.00400 DW  DW07.00400 DW  DW07.00400 DW  DW07.00400 DW  DW07.00540 DW  DW07.00540 DW  DW07.00540 DW  DW07.00560 DW  DW07.00560 DW  DW07.00560 DW  DW07.00560 DW  DW07.00560 DW  DW07.00560 DW  DW07.00560 DW  DW07.00560 DW  DW07.00560 DW	Yes		TU	DW07.00300	DW	ICP
DW07 00340 DW DW07 00380 DW DW07 00380 DW DW07 00400 DW DW07 00400 DW DW07 00400 DW DW07 00500 DW DW07 00500 DW DW07 00560 DW DW07 00560 DW DW07 006600 DW DW07 00630 DW DW07 00630 DW DW07 00630 DW DW07 00640 DW DW07 00740 DW DW07 00750 DW	Yes		UT	DW07.00330	DW	ICP/MS
DW07 00380 DW  DW07 00400 DW  DW07 00430 DW  DW07 00460 DW  DW07 00490 DW  DW07 00500 DW  DW07 00530 DW  DW07 00560 DW  DW07 00660 DW  DW07 00630 DW  DW07 00630 DW  DW07 00630 DW  DW07 00640 DW  DW07 00740 DW  DW07 00750 DW	Yes		IN	DW07.00340	DW	CP
DW07 00400 DW  DW07 00430 DW  DW07 00460 DW  DW07 00490 DW  DW07 00500 DW  DW07 00530 DW  DW07 00560 DW  DW07 00660 DW  DW07 00630 DW  DW07 00630 DW  DW07 00640 DW  DW07 00670 DW  DW07 00770 DW	Yes		Ш	DW07.00380	DW	ICP/MS
UT DW07.00430 DW  UT DW07.00490 DW  UT DW07.00490 DW  UT DW07.00500 DW  UT DW07.00530 DW  UT DW07.00540 DW  UT DW07.00560 DW  UT DW07.00660 DW  UT DW07.00630 DW  UT DW07.00630 DW  UT DW07.00630 DW  UT DW07.00640 DW  UT DW07.00670 DW	X	S	III	DW07.00400	DW	ICP
UT DW07 00460 DW  UT DW07 00490 DW  UT DW07 00500 DW  UT DW07 00530 DW  UT DW07 00540 DW  UT DW07 00560 DW  UT DW07 00660 DW  UT DW07 00660 DW  UT DW07 00670 DW  UT DW07 00670 DW  UT DW07 00770 DW		Yes	T	DW07.00430	DW	ICP
UT DW07.00490 DW  UT DW07.00500 DW  UT DW07.00530 DW  UT DW07.00540 DW  UT DW07.00560 DW  UT DW07.00600 DW  UT DW07.00630 DW  UT DW07.00640 DW  UT DW07.00670 DW  UT DW07.00740 DW  UT DW07.00740 DW		Yes	TU	DW07_00460	DW	ICP/MS
UT DW07.00500 DW  UT DW07.00530 DW  UT DW07.00540 DW  UT DW07.00560 DW  UT DW07.00600 DW  UT DW07.00630 DW  UT DW07.00640 DW  UT DW07.00670 DW  UT DW07.00740 DW  UT DW07.00770 DW		Yes	UT	DW07_00490	DW	ICP/MS
UT DW07.00530 DW  UT DW07.00540 DW  UT DW07.00560 DW  UT DW07.00600 DW  UT DW07.00630 DW  UT DW07.00640 DW  UT DW07.00670 DW  UT DW07.00670 DW  UT DW07.00770 DW		Yes	II	DW07_00500	DW	ICP
UT DW07.00540 DW  UT DW07.00560 DW  UT DW07.00600 DW  UT DW07.00630 DW  UT DW07.00640 DW  UT DW07.00670 DW  UT DW07.00740 DW  UT DW07.00760 DW		Yes	UT	DW07_00530	DW	ICP/MS
UT DW07.00560 DW  UT DW07.00600 DW  UT DW07.00630 DW  UT DW07.00640 DW  UT DW07.00670 DW  UT DW07.00740 DW  UT DW07.00760 DW		Yes	T	DW07,00540	DW	CP
UT DW07.00600 DW  UT DW07.00630 DW  UT DW07.00640 DW  UT DW07.00670 DW  UT DW07.00740 DW  UT DW07.00760 DW		Yes	T	DW07_00560	DW	ICP/MS
UT DW07.00630 DW  UT DW07.00640 DW  UT DW07.00670 DW  UT DW07.00740 DW  UT DW07.00760 DW		Yes	TU	DW07_00600	DW	ICP
UT DW07.00640 DW UT DW07.00670 DW UT DW07.00740 DW UT DW07.00760 DW UT DW07.00770 DW		Yes	TU	DW07.00630	DW	ICP/MS
Yes UT DW07.00670 DW Yes UT DW07.00740 DW Yes UT DW07.00760 DW Yes UT DW07.00770 DW		Yes	TI	DW07.00640	DW	Q
Yes UT DW07.00740 DW Yes UT DW07.00760 DW Yes UT DW07.00770 DW		Yes	F	DW07,00670	DW	ICP/MS
Yes UT DW07.00760 DW Yes UT DW07.00770 DW	-	Yes	II.	DW07.00740	DW	ICP/MS
Yes UT DW07_00770 DW		Yes	UT	DW07,00760	DW	. ICP/MS
		Yes	IJ,	DW07,00770	DW	ΙÇΡ

KEY. AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials



# LEAD IN DRINKING WATER TESTING REPORT

WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT VILLAGE ELEMENTARY SCHOOL 601 NEW VILLAGE ROAD WEST WINDSOR, NEW JERSEY 08550

### PREPARED FOR:

West Windsor-Plainsboro Regional School District 505 Village Road West PO Box 505 West Windsor, New Jersey 08550

#### PREPARED BY:

PARS Environmental, Inc. 500 Horizon Drive, Suite 540 Robbinsville, New Jersey 08691

Tel: 609-890-7277 Fax: 609-890-9116

PARS Project No. 565-84

**April 2016** 



LABORATORY CERTIFICATION

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT VILLAGE ELEMENTARY SCHOOL APRIL 2016

**PARS** 

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**PARS** 

## **EXECUTIVE SUMMARY**

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Village Elementary School (VES). PARS conducted the lead in drinking water testing on March 30, 2016 and April 19, 2016. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the United States Environmental Protection Agency (USEPA) 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (USEPA 3Ts). PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

#### **FINDINGS**

The USEPA National Primary Drinking Water Regulations requires that immediate action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 milligrams per liter (mg/l). Exceedance of the 0.015 mg/l action level was identified in one sample in the VES. A total of 17 water samples were collected and analyzed. Laboratory analysis revealed that the room B206 classroom faucet was above the action level of 0.015 mg/l. The room B206 classroom faucet was initially sampled on March 30, 2016, and re-sampled on April 19, 2016. The lead levels decreased from 0.022 mg/l to 0.0015 mg/l in the primary First Draw sample collected. The lead levels further decreased to <0.00050 mg/l in the 30 Second Flush sample collected. The 0.015 mg/l action level was not exceeded in the re-sampling of the room B206 classroom faucet.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic flushing of the school taps and testing per state and federal regulations.



**PARS** 

### 1.0 INTRODUCTION

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Village Elementary School (VES). The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the *USEPA 3Ts*. PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

Sampling methodology is described in Section 2.0, the Lead in Drinking Water Findings are discussed in Section 3.0, and the Conclusions and Recommendations are presented in Section 4.0. A list of the sample locations and results are provided in **Table 1**. The Laboratory Analytical Report and Laboratory NELAC Certification are provided in **Appendix A** and **B**, respectively.

This report is intended for the sole use of WWP. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations, is at risk of said user.



**PARS** 

### 2.0 LEAD IN DRINKING WATER SAMPLING

PARS conducted lead in drinking water testing at the VES on March 30, 2016 and April 19, 2016. The lead in drinking water sampling was conducted by Christa Casciolini, Melissa Konieczny, and Rafael Torres of PARS.

PARS performed lead in drinking water testing at a total of seven (7) drinking water fountains (bubbler and cooler units) and eight (8) faucets in the nurse's office, kitchen, teacher's lounge, and classroom locations in the VES.

All samples were collected following the USEPA First Draw sampling protocol. The First Draw sample collection occurred in the morning prior to the facility opening and before any water was drawn in the building, including toilet flushing. The water was unused for six (6) to eight (8) hours prior to collection. Arrangements were made to sample the water outlets prior to the arrival of teachers and students.

The samples were placed in pre-preserved plastic bottles and submitted for laboratory analysis to SGS Accutest for two-week turnaround. SGS Accutest is a New Jersey Department of Environmental Protection (NJDEP) certified laboratory for lead in drinking water (NELAC #CO007 and #12129). All samples were analyzed using USEPA Method 200.8 for the determination of trace elements in waters and wastes by inductively coupled plasma – mass spectrometry (ICP-MS). Chain-of-custody protocols were followed.



**PARS** 

### 3.0 LEAD IN DRINKING WATER FINDINGS

Exceedance of the 0.015 mg/l action level was identified in one sample in the VES. A total of 17 water samples were collected and analyzed. Laboratory analysis revealed that the room B206 classroom faucet was above the action level of 0.015 mg/l. The room B206 classroom faucet was initially sampled on March 30, 2016, and re-sampled on April 19, 2016. The lead levels decreased from 0.022 mg/l to 0.0015 mg/l in the primary First Draw sample collected. The lead levels further decreased to <0.00050 mg/l in the 30 Second Flush sample collected. The 0.015 mg/l action level was not exceeded in the re-sampling of the room B206 classroom faucet.

Lead in drinking water tabulated results for the VES are provided in **Table 1**. The laboratory analytical report is included in **Appendix A.** The laboratory certification is included in **Appendix B**.

**PARS** 

### 4.0 CONCLUSIONS AND RECOMMENDATIONS

A total of seven (7) drinking water fountains (bubbler and cooler units) and eight (8) faucets in the nurse's office, kitchen, teacher's lounge, and classroom locations were tested in the VES. The USEPA recommends that action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 mg/l. Exceedance of the 0.015 mg/l action level was identified in one sample in the VES. A total of 17 water samples were collected and analyzed. Laboratory analysis revealed that the room B206 classroom faucet was above the action level of 0.015 mg/l. The room B206 classroom faucet was initially sampled on March 30, 2016, and resampled on April 19, 2016. The lead levels decreased from 0.022 mg/l to 0.0015 mg/l in the primary First Draw sample collected. The lead levels further decreased to <0.00050 mg/l in the 30 Second Flush sample collected. The 0.015 mg/l action level was not exceeded in the resampling of the room B206 classroom faucet.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic flushing of the school taps and testing per state and federal regulations.

-000-

PARS appreciates the opportunity to assist West Windsor-Plainsboro Regional School District with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

PARS ENVIRONMENTAL, INC.

Christa M. Casciolini

Project Geologist

Margaret Halasnik

Principal Industrial Hygienist

Margaret Halasii



# 

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT VILLAGE ELEMENTARY SCHOOL APRIL 2016

# TABLE 1 DRINKING WATER RESULTS TABLE

#### TABLE 1

#### LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT VILLAGE ELEMENTARY SCHOOL

APRIL 2016

All samples are primary (first draw) samples. Except for one (1) 30 second flush sample collected on 4/19/16 during re-sampling of the room B206 classroom faucet.

All faucets sampled are cold water, unless noted. EPA Action limit = 0.015 milligrams per liter (mg/l)

Village Elementary School 3/30/2016

Exceeds EPA Action Limit ( > 0.015 mg/l)											
lit = result > 0.00050 detection limit											
3/30/16 Initial Sampling											
ccutest Mountain States											4/15/2016 12
ob Number:	D81294										
ccount:		nmental Services									
roject:	U	nal, West Windsor-Plains	boro, NJ								
Project Number:	Village Schoo	ol									
										Legend:	Hit
		1									
Client Sample ID:		VSE-01-A40-NS-P	VSE-01-H1-WC-P	VSE-01-KIT-KC-P	VSE-01-A66-TS-P	VSE-01-H2A31-WC-P	VSE-01-B105-CF-P	VSE-01-B108-DW-P	VSE-01-H3B110- WC-P	VSE-01-B113-DW-P	VSE-01-B120-DW
Lab Sample ID:		D81294-1	D81294-2	D81294-3	D81294-4	D81294-5	D81294-6	D81294-7	D81294-8	D81294-9	D81294-10
Date Sampled:		3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis											
rectals relatives											
ead	mg/l	0.0034	< 0.00050	< 0.00050	< 0.00050	< 0.00050	0.013	0.00079	< 0.00050	0.00099	0.0018
											-
Client Sample ID:		VSE-02-B215-CF-P	VSE-02-B216-CF-P	VSE-02-H3B210- WC-P	VSE-02-B206-CF-P	VSE-02-B205-CF-P					
Lab Sample ID:		D81294-11	D81294-12	D81294-13	D81294-14	D81294-15					
Date Sampled:		3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016					
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water					
Ietals Analysis											
ead	mg/l	0.0034	0.0043	<0.00050	0.022	0.0043	1	1		T	

#### TABLE 1

#### LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT VILLAGE ELEMENTARY SCHOOL

APRIL 2016

All samples are primary (first draw) samples. Except for one (1) 30 second flush sample collected on 4/19/16 during re-sampling of the room B206 classroom faucet. All faucets sampled are cold water, unless noted.

EPA Action limit = 0.015 milligrams per liter (mg/l)

Lead

School: Village Elementary School Sampling Date: 4/19/2016 xceeds EPA Action Limit ( > 0.015 mg/l) Hit = result > 0.00050 detection limit 04/19/16 Resampling Accutest New Jersey Apr 26, 2016 13:44 pn JC18609 Job Number: PARS Environmental Services Account: WWP Schools-Village School, 601 New Village Road, West Project: Windsor, NJ 565-84 Project Number: Hit Legend VSE-02-B206-CF-P VSE-02-B206-CF-F Client Sample ID: JC18609-1 JC18609-2 Lab Sample ID: Date Sampled: 4/19/2016 4/19/2016 Matrix: **Drinking Water Drinking Water** Metals Analysis

School-Floor-Room-Outlet-Sample Type Client Sample ID Format: 01 = First floor

### = Room number ###

mg/l

02 = Second floor ###-### = Sample between room number ### and room #

H### = Hallway by room number ###

< 0.00050

Outlet:

BL = Boy's locker room CAF = Cafeteria FR = Faculty room GL = Girl's locker room KIT = Kitchen

MGYM = Main gym  $MO = Main \ office$ NUR = Nurse's office SGYM = Small gym TGL = Team girl's locker room

TL = Teacher's lounge TP = Teacher's prep room PLR = Pool Locker room

BF = Bathroom faucet

P = Primary (first draw) sample CF = Classroom faucet F = Flush sample

Sample Type:

DW= Drinking water bubbler EC = Home economics room, cold

KC = Kitchen faucet, cold LC = Lounge faucet, cold NS = Nurse's office sink WC = Water cooler (chiller unit)

TF or TS = Teacher's faucet or Teacher's sink





# APPENDIX A LABORATORY ANALYTICAL REPORTS



# ACCUTEST Mountain States

04/14/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

## Technical Report for

#### **PARS** Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ

**VSE** 

SGS Accutest Job Number: D81294

Sampling Date: 03/30/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 ccasciolini@ParsEnviro.com

ATTN: Crista Casciolini

Total number of pages in report: 55

TNI TABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman Laboratory Director

Seed walk

Client Service contact: Cristina Araujo 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY

CO (CO00049), EPA 515.4 Provisional

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Test results relate only to samples analyzed.

SGS

# Section

-1-

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# **Sample Summary**

Job No:

D81294

PARS Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ Project No: VSE

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
D81294-1	03/30/16	06:32 MK	03/31/16	DW	Drinking Water	VSE-01-A40-NS-P
D81294-2	03/30/16	06:36 MK	03/31/16	DW	Drinking Water	VSE-01-H1-WC-P
D81294-3	03/30/16	06:40 MK	03/31/16	DW	Drinking Water	VSE-01-KIT-KC-P
D81294-4	03/30/16	06:44 MK	03/31/16	DW	Drinking Water	VSE-01-A66-TS-P
D81294-5	03/30/16	06:48 MK	03/31/16	DW	Drinking Water	VSE-01-H2A31-WC-P
D81294-6	03/30/16	06:52 MK	03/31/16	DW	Drinking Water	VSE-01-B105-CF-P
D81294-7	03/30/16	06:54 MK	03/31/16	DW	Drinking Water	VSE-01-B108-DW-P
D81294-8	03/30/16	06:58 MK	03/31/16	DW	Drinking Water	VSE-01-H3B110-WC-P
D81294-9	03/30/16	07:01 MK	03/31/16	DW	Drinking Water	VSE-01-B113-DW-P
D81294-10	03/30/16	07:04 MK	03/31/16	DW	Drinking Water	VSE-01-B120-DW-P
D81294-11	03/30/16	07:13 MK	03/31/16	DW	Drinking Water	VSE-02-B215-CF-P
D81294-12	03/30/16	07:16 MK	03/31/16	DW	Drinking Water	VSE-02-B216-CF-P
D81294-13	03/30/16	07:18 MK	03/31/16	DW	Drinking Water	VSE-02-H3B210-WC-P



# Sample Summary (continued)

PARS Environmental Services

Job No: D81294

WWP Regional, West Windsor-Plainsboro, NJ Project No: VSE

Sample	Collected			Matr	rix	Client		
Number	Date	Time By	Received	Code	e Type	Sample ID		
D81294-14	03/30/16	07:20 MK	03/31/16	DW	Drinking Water	VSE-02-B206-CF-P		
D81294-15	03/30/16	07:24 MK	03/31/16	DW	Drinking Water	VSE-02-B205-CF-P		

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No D81294

Site: WWP Regional, West Windsor-Plainsboro, NJ Report Date 4/14/2016 3:54:56 PM

On 03/31/2016, 15 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 1.9 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D81294 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

#### Metals By Method EPA 200.8

Matrix: DW Batch ID: MP18451

- If required based on the turbidity results, all samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81294-1MS, D81294-1MSD were used as the QC samples for the metals analysis.

Matrix: DW Batch ID: MP18452

- If required based on the turbidity results, all samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81333-1MS, D81333-1MSD were used as the QC samples for the metals analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.



**Summary of Hits** 

Job Number: D81294

**Account:** PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/30/16

Lead

Lab Sample ID Client Sample ID Result/ RL Method Analyte Qual **MDL** Units D81294-1 VSE-01-A40-NS-P 0.0034 0.00050 Lead mg/l EPA 200.8 D81294-2 VSE-01-H1-WC-P No hits reported in this sample. D81294-3 VSE-01-KIT-KC-P No hits reported in this sample. D81294-4 VSE-01-A66-TS-P No hits reported in this sample. D81294-5 VSE-01-H2A31-WC-P No hits reported in this sample. D81294-6 VSE-01-B105-CF-P 0.00050 Lead 0.013 EPA 200.8 mg/1D81294-7 VSE-01-B108-DW-P Lead 0.00079 0.00050EPA 200.8 mg/l D81294-8 VSE-01-H3B110-WC-P No hits reported in this sample. D81294-9 VSE-01-B113-DW-P Lead 0.00099 0.00050 EPA 200.8 mg/l D81294-10 VSE-01-B120-DW-P Lead 0.0018 0.00050mg/l EPA 200.8 D81294-11 VSE-02-B215-CF-P

0.00050

mg/l

EPA 200.8

0.0034

**Summary of Hits Job Number:** D81294

**Account:** PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/30/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method				
D81294-12	VSE-02-B216-CF-P									
Lead		0.0043	0.00050		mg/l	EPA 200.8				
D81294-13	VSE-02-H3B210-WC-P									
No hits reported	in this sample.									
D81294-14	VSE-02-B206-CF-	P								
Lead		0.022	0.00050		mg/l	EPA 200.8				
D81294-15	VSE-02-B205-CF-	P								
Lead		0.0043	0.00050		mg/l	EPA 200.8				



# Section 4

Sample Results	
Report of Analysis	
1	

# 4

# **Report of Analysis**

Client Sample ID: VSE-01-A40-NS-P

Lab Sample ID:D81294-1Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0034	0.015	0.00050	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18451

RL = Reporting Limit

#### 4

Page 1 of 1

# Report of Analysis

Client Sample ID: VSE-01-H1-WC-P

Lab Sample ID:D81294-2Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	60 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18451

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



10 of 55
ACCUTEST
D81294

Client Sample ID: VSE-01-KIT-KC-P

Lab Sample ID:D81294-3Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

**Report of Analysis** 

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18451

RL = Reporting Limit

# **Report of Analysis**

Client Sample ID: VSE-01-A66-TS-P

Lab Sample ID:D81294-4Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.00050	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18451

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: VSE-01-H2A31-WC-P

Lab Sample ID:D81294-5Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	60 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18451

RL = Reporting Limit

# **Report of Analysis**

Client Sample ID: VSE-01-B105-CF-P

Lab Sample ID: D81294-6 **Date Sampled:** 03/30/16 Matrix: **Date Received:** 03/31/16 DW - Drinking Water Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL Units		DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.013	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209 (2) Prep QC Batch: MP18451

RL = Reporting Limit





# **Report of Analysis**

Client Sample ID: VSE-01-B108-DW-P

Lab Sample ID:D81294-7Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL Units		DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.00079	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18451

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: VSE-01-H3B110-WC-P

Lab Sample ID:D81294-8Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	60 mg/l	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18451

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: VSE-01-B113-DW-P

Lab Sample ID:D81294-9Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.00099	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18451

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: VSE-01-B120-DW-P

Lab Sample ID:D81294-10Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL Units		DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0018	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18451

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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# **Report of Analysis**

Client Sample ID: VSE-02-B215-CF-P

Lab Sample ID:D81294-11Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0034	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18452

RL = Reporting Limit



# **Report of Analysis**

Page 1 of 1

Client Sample ID: VSE-02-B216-CF-P

Lab Sample ID: D81294-12 **Date Sampled:** 03/30/16 Matrix: **Date Received:** 03/31/16 DW - Drinking Water Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL Units		DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0043	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209 (2) Prep QC Batch: MP18452

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



**ACCUTEST** 

# **Report of Analysis**

Client Sample ID: VSE-02-H3B210-WC-P

Lab Sample ID:D81294-13Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18452

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



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# **Report of Analysis**

Client Sample ID: VSE-02-B206-CF-P

Lab Sample ID:D81294-14Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.022	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18452

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: VSE-02-B205-CF-P

Lab Sample ID:D81294-15Date Sampled:03/30/16Matrix:DW - Drinking WaterDate Received:03/31/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL Units		DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.0043	0.015	0.00050 mg/l		1	04/13/16	04/14/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7209(2) Prep QC Batch: MP18452

RL = Reporting Limit



# Section 5

Misc. Forms	
Custody Documents and Other Forms	
Includes the following where applicable:	
Chain of Custody	

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	ACCUTEST	CHAIN OF CUSTODY													PAGE OF _~									
	LABORATORIES	ANA P												Tracking #			<del></del>	Bottle Order Control #						
			2235 Route 130, Dayton, NJ 0881 TEL, 732-329-0200 FAX: 732-329-349											Acculast Quote#					Accorded Job # 175/17 9 C					
Client / Reporting Information Project is						www.accutest.com Information								Requested Analysis ( see										
-	CALL CONTROL C	Project Name:		Project	informs	tion								Requ	ested /	Analysis	( see	TEST C	ODE sh	eet)		Matrix Codes		
PARS WWP Regional			. 1 1/6	VEC																	DW - Drinking Water			
Street /	PARS Street Address		12601011	36															ļ		GW - Ground Water WW - Water			
500 Horizon Dr., Suite 640			Billing Information (if different from Report to)											-   -						SW - Surface Water				
		City	Company Name								1			-						SL- Sludge SED-Sediment				
Rock	Roduinsville, 103 08691		Project#				Street Address															OI - Oil		
			0274		Sueeth	JU1005							PW Pb				ŀ					LIQ - Other Liquid AIR - Air		
Phone:	Misla Casciolini ccasciolini pia		Client Purchase Order #				City State Zip															SOL - Other Solid WP - Wipe		
609	1-890-1277 r(s) Name(s) Phone #												_2004	<b>3</b>								FB-Fleld Blank EB-Equipment Blank		
Sampler(s) Name(s) Phone #		Project Manago	Attention:										1							RB- Rinse Blank TB-Trip Blank				
		-	T	Collection			т т	N	limber of	ומפטום	ved Bolti	Dá	-		1	ĺ						D-TIP DIAIN		
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Accutesi Sample ff	Field ID / Point of Collection	MEOH/DI Vial#	Date	Time	Sampled by	Matrix	# of bottles	Man HG	HN03 H2SO4	NONE	DI Wab	BNCORE										LAB USE ONLY		
	VSE-01-A40-NS-P		3 30116	6:32	mk		1		1				Х									01		
	VSE - 01- HI - WC-P		3/30/16	6:36	mk		1						×									02		
	VSE-01-KIT-KC-P		3/30/1/0	6:40	mic.		1		1	П			'x									63		
	VSE-01-A66-TS-P		3130116	6:44	MIC		1		ı	П			X									04		
	VSE - 01-142/31-WC-P		3/30/16	6:48	mk		١		1	П			×									OS		
	VSE-01-8105-CF-P		3 30 16	6:52	MIL		ì		i	П			×									06		
	USE-01-BIOF-DW-P		3/30/16	6:54	MK.		1		1				X.									07		
	VSE-01-H3B110-WC-P		3/30/16	6:58	MIL		ì		١	П			х									08		
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	Turnaround Time ( Business days)								rable In	forma							Co	mments /	Special	Instructio	ns e			
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	Std. 10 Business Days  5 Day RUSH						(Level 3+4			$\vdash$	State		JULY E	h										
	3 Day RUSH				-	NJ Redu	•	′		$\equiv$		Format												
	2 Day RUSH					Commer	clal "C"				Other													
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4
Custody Seal #

Received By:

Date Time:

D81294: Chain of Custody Page 1 of 3

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PAGE 2 OF 2

# ACCUTEST.

#### CHAIN OF CUSTODY

PABS  From Horizon Dr., Surte 640  Sign Horizon Dr., Surte 640  Sign Horizon Dr., Surte 640  Sign Horizon Dr., Surte 640  Sign Horizon Dr., Surte 640  Sign Horizon Dr., Surte 640  Sign Horizon Dr., Surte 640  Sign Horizon Br., Surte 640  Sign Horiz	132-329-3499/3480	D/J Pb 200.88	ted Analysis ( see	TEST CODE	1);		Matrix Codes  DW - Erisking Water  GW - Cround Weler  WW - Valer  WW - Surface Valer  SO - Soll  SL - Studge  SLD
Client / Reporting Information  Project Information  Project Name  Project Name  WWP Regional - VSE  WWP R	State Zip  Number of preserved Bottles  Number of preserved Bottles  Reg of bottles  Number of preserved Bottles  Number of preserve	D/J Pb 200.88	ted Analysie ( see	TEST CODI			Matrix Codes  OW - Drinking Water  GW - Ground Weler  WW - Water  SW - Surface Vater  SO - Soil  SL - Studge  SED-Sediment  OI - Oil  LIQ - Other Liquid  AIR - Air  SOL - Other Soid  WP - Wipe  Field Blank  EB-Teachment Bank  EB-Teachment Bank  EB-Teach Blank  RB- Rinse Blank
Dempary Name  PARS  PARS  Dempary Name  Direct Address  Street  Direct Address	State Zip  Number of preserved Bottles  Numbe	Ph 200.88					GW - Cround Water WW - Water SW - Surface Water SO - Soil SL- Sludge SED-Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank RB- Rinse Blank RB- Rinse Blank
State	State Zip  Number of preserved Bottles  Numbe	Ph 200.88					GW - Cround Water WW - Water SW - Surface Water SO - Soil SL- Sludge SED-Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank RB- Rinse Blank RB- Rinse Blank
Description   Description	State Zip  Number of preserved Bottles  Numbe	Ph 200.88					SW - Surface Water SO - Soil SL - Sludge SED-Sediment OI - Oil LiQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank RB-Rinse Blank RB-Rinse Blank
Project #   Project #   Street Address   Project #   Street Address   Project #   Street Address   Project #   Street Address   Project #   Project #   Project #   Project #   Project #   Project #   Project Manager   Project #   Project Manager   Project #   Pr	State Zip  Number of preserved Bottles  Numbe	Ph 200.88					SL- Sludge SED-Sedimen! OI - OII LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blank RB- Rinse Bjank
Project #   Project #   Street Address   Project #   Street Address   Project #   Street Address   Project #   Street Address   Project #   Project #   Project #   Project #   Project #   Project #   Project Manager   Project #   Project Manager   Project #   Pr	Number of preserved Bottles  Number of preser	Ph 200.88					OI - OII LIQ - Other Liquid AIR - AIr SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blank RB- Rinse Bjank
Maisha (ascialini Crascialini Dilent Purchase Order # City   City	Number of preserved Bottles  Number of preser	200.8					LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blank RB- Rinse Blank
Attention:   Att	Number of preserved Bottles  Number of preser	200.8					SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blank RB- Rinse Blank
Attention:   Att	Number of preserved Bottles  Number of preser	2					FB-Field Blank EB-Equipment Blan RB- Rinse Blank
Collection	HNOS   HNOS	To the second se					RB- Rinse Blank
Callegada:   Cal	HNOS   HNOS	To the second se					
Field ID / Point of Collection   MEDMIDI VALUE   Date   Time   Sampled by   Mail VSE - 03 - H3 PS VO - WC - P   3 30 16   3:18   MV   VSE - 03 - B305 - CF - P   3 30 16   3:20   M/C	HNOS   HNOS	To the second se					TOTAL CONTRACTOR OF PARTICIPATION OF THE
VSE-02-H38210-WC-P 3/30/16 7:18 MK VSE-02-B206-CF-P 3/30/16 7:20 MK			1 1 1				LAB USE ONLY
VSE-02-B306-CF-P 3/30/16 7:20 MK			and the second s				13
							14
VSE-0x-B005°CF-P 1130116 1:49 IIII-			and the second section of the second	ALICE PERSONAL PROPERTY.			15
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Modification (Control of Control							L
Turnaround Time ( Business days)	Data Deliverable Information		l C	Comments / Sp	pecial Instructi	ions [ ]	
Section 2010	hercial "A" (Level 1) NYASP hercial "B" (Level 2) NYASP						
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3 Day EMERGENCY					Land - Incompany		Section of the Sectio
2 Day EMERGENCY Comb							
1 Day EMERGENCY	Commercial "A" = Results Only  Commercial "B" = Results + QC Summary	,				and white the control of the control	
Tother ONESK Emergehop & Rush T/A data avadatio VIA Lablink	M I Daylored a Decidle + OC Summary +	Portial Raw data		J. Commission	<b>.</b>		
Sample Custody must be documented below	each time samples change possession			Received E	$\Delta$	<b>-</b>	~ 15 BI
Redinquisped by Sampler: Date Tyro: 1 Cloth Colin 3/20/16 1 1. 1. 1. 1. 1. 0 3 - 30 - 12	2 / 12/10		3 - 30 - 16 Date Time:	25	Jaw	Jayor	Lein
Relinquished by Sampler: Date Time: Received By:	and the second s		Date Time:	Received E	By:		( 00
3 3 Reininguished by: Date Time: Received By:	Relinquished By:	Intact Pre	seerved where applicable,	77-56-7	On Ice	Coole	-Temp. 573
5	Custody Seal #	I Mad Salinat	N.	1		371	- 1 per

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#### **SGS Accutest Sample Receipt Summary**

Comments

Job Number: D81294 Client: PARS	Project: WWP REGIOANL VSE
Date / Time Received: 3/31/2016 10:50:00 AM Delivery Method:	Airbill #'s: fx
Cooler Temps (Initial/Adjusted): #1: (1.9/1.9):	
Cooler Security         Y         or         N         Y         or         N           1. Custody Seals Present:         ✓         □         3. COC Present:         ✓         □           2. Custody Seals Intact:         ✓         □         4. Smpl Dates/Time OK         ✓         □         □	Sample Integrity - Documentation  1. Sample labels present on bottles:
Cooler Temperature Y or N	3. Sample container label / COC agree:   ☑
1. Temp criteria achieved:  2. Cooler temp verification:  3. Cooler media:  4. No. Coolers:  □  IR Gun;  Ice (Bag)	Sample Integrity - Condition  1. Sample recvd within HT:  2. All containers accounted for:  3. Condition of sample:    Y or N
Quality Control Preservation Y or N N/A	Sample Integrity - Instructions Y or N N/A
1. Trip Blank present / cooler:	1. Analysis requested is clear:  2. Bottles received for unspecified tests
3. Samples preserved properly:   4. VOCs headspace free:   □   ✓	3. Sufficient volume recvd for analysis:  4. Compositing instructions clear:  5. Filtering instructions clear:

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Section 6

## Metals Analysis

## QC Data Summaries

#### Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

# SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81294 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

Time	Sample Description	Dilution Factor	Comments
07:39	ZZZZZZ	1	
07:42	ZZZZZZ	1	
07:46	MA7209-STD1	1	STDBLK
07:49	MA7209-STD2	1	STD1
07:52	MA7209-STD3	1	STD2
07:55	MA7209-STD4	1	STD3
07:58	MA7209-CRI1	1	Possible analytical problem. See rerun.
08:03	MA7209-CRI2	1	
08:06	MA7209-ICV1	1	
08:09	MA7209-ICB1	1	
08:12	MA7209-CCV1	1	
08:15	MA7209-CCB1	1	
08:18	ZZZZZZ	1	
08:21	MP18448-MB1	1	
08:24	MP18448-B1	1	
08:27	D81292-1	1	(sample used for QC only; not part of login D81294)
08:30	MP18448-S1	1	
08:34	MA7209-CCV2	1	
08:37	MA7209-CCB2	1	
08:40	MP18448-S2	1	
08:43	ZZZZZZ	1	
08:46	ZZZZZZ	1	
08:49	ZZZZZZ	1	
08:52	ZZZZZZ	1	
08:55	ZZZZZZ	1	
08:58	ZZZZZZ	1	
09:01	ZZZZZZ	1	
		1	
		1	
		1	
		1	
		1	
09:17	MP18449-MB1	1	

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# SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81294 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Analyst: RM Run ID: MA7209

Parameters: Pb

Time	Sample Description	Dilution PS Factor Recov	Comments
09:20	MP18449-B1	1	
09:23	D81293-1	1	(sample used for QC only; not part of login D81294)
09:26	MP18449-S1	1	
09:29	MP18449-S2	1	
09:32	ZZZZZZ	1	
09:35	ZZZZZZ	1	
09:38	ZZZZZZ	1	
09:41	ZZZZZZ	1	
09:44	ZZZZZZ	1	
09:47	MA7209-CCV4	1	
09:50	MA7209-CCB4	1	
09:54	ZZZZZZ	1	
09:57	ZZZZZZ	1	
10:00	ZZZZZZ	1	
10:03	ZZZZZZ	1	
10:06	ZZZZZZ	1	
10:09	MP18450-MB1	1	
10:12	MP18450-B1	1	
10:15	D81293-6	1	(sample used for QC only; not part of login D81294)
10:18	MP18450-S1	1	
10:21	MP18450-S2	1	
10:24	MA7209-CCV5	1	
10:28	MA7209-CCB5	1	
10:31	ZZZZZZ	1	
10:34	ZZZZZZ	1	
10:37	ZZZZZZ	1	
10:40	ZZZZZZ	1	
10:43	ZZZZZZ	1	
10:46	ZZZZZZ	1	
10:49	ZZZZZZ	1	
10:52	ZZZZZZ	1	
10:55	ZZZZZZ	1	
10:58	MP18451-MB1	1	

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ACCUTEST
D81294

# SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81294 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Analyst: RM Run ID: MA7209

	lyst: RM ameters: Pb		Run ID: MA7209
Time	-	Dilution PS Factor Recov	Comments
11:01	MA7209-CCV6	1	
11:04	MA7209-CCB6	1	
11:07	MP18451-B1	1	
11:10	D81294-1	1	
11:14	MP18451-S1	1	
11:17	MP18451-S2	1	
11:20	D81294-2	1	
11:23	D81294-3	1	
11:26	D81294-4	1	
11:29	D81294-5	1	
11:32	D81294-6	1	
11:35	D81294-7	1	
11:38	MA7209-CCV7	1	
11:41	MA7209-CCB7	1	
11:44	D81294-8	1	
11:47	D81294-9	1	
11:50	D81294-10	1	
11:53	MP18447-MB1	1	
11:56	MP18447-B1	1	
12:00	D81295-1	1	(sample used for QC only; not part of login D81294)
12:03	MP18447-S1	1	
12:06	MP18447-S2	1	
12:09	ZZZZZZ	1	
12:12	ZZZZZZ	1	
12:15	MA7209-CCV8	1	
12:18	MA7209-CCB8	1	
12:21	ZZZZZZ	1	
12:24	ZZZZZZ	1	
12:27	ZZZZZZ	1	
12:30	ZZZZZZ	1	
12:33	ZZZZZZ	1	
12:36	ZZZZZZ	1	
12:40	ZZZZZZ	1	

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#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: D81294 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

Date Analyzed: 04/14/16 Methods: EPA 200.8 File ID: PA041416DW.REP

Analyst: RM Parameters: Pb

Time	Sample Description	Dilutior Factor		Comments
12:43	MP18452-MB1	1		
12:46	MP18452-B1	1		see rerun
12:49	D81333-1	1		(sample used for QC only; not part of login D81294)
12:52	MA7209-CCV9	1		
12:55	MA7209-CCB9	1		
12:58	MP18452-S1	1		
13:01	MP18452-S2	1		
13:04	D81294-11	1		
13:07	D81294-12	1		
13:10	D81294-13	1		
13:13	D81294-14	1		
13:17	D81294-15	1		
13:20	ZZZZZZ	1		
13:23	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:29	MA7209-CCV10	1		
13:32	MA7209-CCB10	1		
13:35	ZZZZZZ	1		
13:38	MA7209-CCV11	1		
13:41	MA7209-CCB11	1		
14:03	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:09	MP18453-MB1	1		
14:12	MP18453-B1	1		
14:15	D81333-6	1		(sample used for QC only; not part of login D81294)
14:26	MP18453-S1	1		
14:29	MP18453-S2	1		
14:32	ZZZZZZ	1		
14:35	ZZZZZZ	1		
Last r	MP18452-B1 eportable sample MA7209-CCV12	1 e/prep for 1	job D812	294
Last r	MA7209-CCB12 reportable CCB for			

Refer to raw data for calibration curve and standards.

#### Login Number: D81294 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Analyst: RM Parameters: Pb

Para	ameters: Pb		
Time	Sample Description	Istd#1	Istd#2
07:39	ZZZZZZ	454198	502850
07:42	ZZZZZZ	443803	488302
07:46	MA7209-STD1	440446 R	488787 R
07:49	MA7209-STD2	432812	477471
07:52	MA7209-STD3	444552	471684
07:55	MA7209-STD4	418479	449504
07:58	MA7209-CRI1	No result	s reported for the elements associated with this internal standard.
08:03	MA7209-CRI2	427738	455261
08:06	MA7209-ICV1	441305	467474
08:09	MA7209-ICB1	423330	464361
08:12	MA7209-CCV1	437487	468907
08:15	MA7209-CCB1	425164	462506
08:18	ZZZZZZ	393164	392547
08:21	MP18448-MB1	401369	417516
08:24	MP18448-B1	396977	418679
08:27	D81292-1	411118	413248
08:30	MP18448-S1	415297	409788
08:34	MA7209-CCV2	440520	469021
08:37	MA7209-CCB2	411664	454809
08:40	MP18448-S2	408626	403631
08:43	ZZZZZZ	400515	399454
08:46	ZZZZZZ	401357	405168
08:49	ZZZZZZ	403967	405826
08:52	ZZZZZZ	405563	404771
08:55	ZZZZZZ	410066	408196
08:58	ZZZZZZ	404010	402560
09:01	ZZZZZZ	404652	397730
09:04	ZZZZZZ	402293	401894
09:04	ZZZZZZ	402293	401894
09:07	ZZZZZZ	406563	402074
09:10	MA7209-CCV3	439057	470400
09:13	MA7209-CCB3	421464	456896
09:17	MP18449-MB1	400391	403203

Login Number: D81294 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209 File ID: PA041416DW.REP

Analyst: RM Parameters: Pb

Time	Sample Description	Istd#1	Istd#2
	MP18449-B1		
	D81293-1		404959
	MP18449-S1		403961
	MP18449-S2		404009
	ZZZZZZ		398455
	ZZZZZZ		393104
	ZZZZZZ		401168
	ZZZZZZ		399160
	ZZZZZZ		
			400904
	MA7209-CCV4		455140
	MA7209-CCB4		449909
	ZZZZZZ		394592
	ZZZZZZ		390231
	ZZZZZZ		395177
10:03	ZZZZZZ	407978	399118
10:06	ZZZZZZ	409640	396550
10:09	MP18450-MB1	415820	418350
10:12	MP18450-B1	408609	405182
10:15	D81293-6	410586	402601
10:18	MP18450-S1	406917	398840
10:21	MP18450-S2	407613	403050
10:24	MA7209-CCV5	432231	449692
10:28	MA7209-CCB5	423323	449467
10:31	ZZZZZZ	401905	390589
10:34	ZZZZZZ	399604	392980
10:37	ZZZZZZ	409739	393477
10:40	ZZZZZZ	402904	397071
10:43	ZZZZZZ	407746	396539
10:46	ZZZZZZ	415698	400216
10:49	ZZZZZZ	406956	400821
10:52	ZZZZZZ	406046	399513
10:55	ZZZZZZ		397845
	MP18451-MB1		406337



# Login Number: D81294 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7209

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

Para	meters: Pb		
Time	Sample Description	Istd#1	Istd#2
11:01	MA7209-CCV6	433782	450090
11:04	MA7209-CCB6	420244	441583
11:07	MP18451-B1	410443	398362
11:10	D81294-1	419007	399880
11:14	MP18451-S1	414012	400717
11:17	MP18451-S2	413388	401939
11:20	D81294-2	403070	398111
11:23	D81294-3	407605	386406
11:26	D81294-4	415288	394425
11:29	D81294-5	405192	392371
11:32	D81294-6	410577	397729
11:35	D81294-7	405172	387233
11:38	MA7209-CCV7	440801	447223
11:41	MA7209-CCB7	421386	436272
11:44	D81294-8	399478	386705
11:47	D81294-9	400781	387378
11:50	D81294-10	413019	389909
11:53	MP18447-MB1	417677	411702
11:56	MP18447-B1	407027	396094
12:00	D81295-1	415831	393077
12:03	MP18447-S1	419655	402165
12:06	MP18447-S2	424122	403599
12:09	ZZZZZZ	402781	384413
12:12	ZZZZZZ	403429	387983
12:15	MA7209-CCV8	435341	436507
12:18	MA7209-CCB8	423104	429492
12:21	ZZZZZZ	412393	385949
12:24	ZZZZZZ	407628	383985
12:27	ZZZZZZ	409041	382610
12:30	ZZZZZZ	407799	385156
12:33	ZZZZZZ	406922	386009
12:36	ZZZZZZ	412740	384586
12:40	ZZZZZZ	401709	382824

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#### Login Number: D81294 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Analyst: RM Parameters: Pb

Para	meters: Pb		
Time	Sample Description	Istd#1	Istd#2
12:43	MP18452-MB1	420241	401814
12:46	MP18452-B1	419395	397055
12:49	D81333-1	409448	385797
12:52	MA7209-CCV9	430672	429843
12:55	MA7209-CCB9	417749	417025
12:58	MP18452-S1	418230	385399
13:01	MP18452-S2	407146	383643
13:04	D81294-11	408302	371466
13:07	D81294-12	403689	379674
13:10	D81294-13	411539	386596
13:13	D81294-14	403197	370721
13:17	D81294-15	416680	381802
13:20	ZZZZZZ	407648	378587
13:23	ZZZZZZ	406024	374405
13:26	ZZZZZZ	408407	372818
13:29	MA7209-CCV10	435942	413205
13:32	MA7209-CCB10	416214	413753
13:35	ZZZZZZ	404822	362076
13:38	MA7209-CCV11	426568	411895
13:41	MA7209-CCB11	409523	407424
14:03	ZZZZZZ	399108	396795
14:06	ZZZZZZ	402218	391683
14:09	MP18453-MB1	378082	358105
14:12	MP18453-B1	386228	358559
14:15	D81333-6	385509	348769
14:26	MP18453-S1	442219	399666
14:29	MP18453-S2	443365	396207
14:32	ZZZZZZ	449246	398780
14:35	ZZZZZZ	444286	403215
14:38	MP18452-B1	454603	416082
14:41	MA7209-CCV12	468425	438157
14:44	MA7209-CCB12	451676	437854
R = Re	ference for IST	'D limits	! = Outside limits.

R = Reference for ISTD limits. ! = Outside limits.

Login Number: D81294 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209 File ID: PA041416DW.REP

Analyst: RM

Parameters: Pb

Sample Time Description Istd#1 Istd#2

LEGEND:

Istd#	<u>Parameter</u>	Limits	
Istd#1	Yttrium	60-125	용
Istd#2	Bismuth	60-125	용

**ACCUTEST** 

#### BLANK RESULTS SUMMARY

#### Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81294

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/1

Time: Sample ID: Metal	RL	IDL	08:09 ICB1 raw	final	08:15 CCB1 raw	final	08:37 CCB2 raw	final	09:13 CCB3 raw	final
Copper	2.0	.06	anr							
Lead	0.50	.0079	0.15	<0.50	0.083	<0.50	0.12	<0.50	0.067	<0.50

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81294

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	RL	IDL	09:50 CCB4 raw	final	10:28 CCB5 raw	final	11:04 CCB6 raw	final	11:41 CCB7 raw	final
Copper	2.0	.06	anr							
Lead	0.50	.0079	0.071	<0.50	0.11	<0.50	0.088	<0.50	0.077	<0.50

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81294

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	RL	IDL	12:18 CCB8 raw	final	12:55 CCB9 raw	final	13:32 CCB10 raw	final	13:41 CCB11 raw	final
Copper	2.0	.06	anr							
Lead	0.50	.0079	0.095	<0.50	0.095	<0.50	0.080	<0.50	0.073	<0.50

#### BLANK RESULTS SUMMARY

Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81294

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	RL	IDL	14:44 CCB12 raw	final
Copper	2.0	.06		
Lead	0.50	.0079	0.17	<0.50

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81294

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Units: ug/l

Time: Sample ID: Metal	ICV True	08:06 ICV1 Results	% Rec	CCV True	08:12 CCV1 Results	% Rec	CCV True	08:34 CCV2 Results	% Rec	
Copper	anr									
Lead	100	102	102.0	50	51.4	102.8	50	52.3	104.6	

## CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: D81294

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	CCV True	09:10 CCV3 Results	% Rec	CCV True	09:47 CCV4 Results	% Rec	CCV True	10:24 CCV5 Results	% Rec
Copper	anr								
Lead	50	51.6	103.2	50	52.2	104.4	50	51.5	103.0

(\*) Outside of QC limits
(anr) Analyte not requested

\_\_\_\_

## CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: D81294

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery Run ID: MA7209 Units: ug/l

Time: Sample ID: Metal	CCV True	11:01 CCV6 Results	% Rec	CCV True	11:38 CCV7 Results	% Rec	CCV True	12:15 CCV8 Results	% Rec
Copper	anr								
Lead	50	52.1	104.2	50	50.4	100.8	50	51.1	102.2

(\*) Outside of QC limits
(anr) Analyte not requested

\_\_\_\_

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81294

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/14/16 Methods: EPA 200.8 Run ID: MA7209

Units: ug/l

Time: Sample ID: Metal	CCV True	12:52 CCV9 Results	% Rec	CCV True	13:29 CCV10 Results	% Rec	CCV True	13:38 CCV11 Results	% Rec
Copper	anr								
Lead	50	49.6	99.2	50	50.1	100.2	50	49.9	99.8

# 5.1.3

## CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81294

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery Run ID: MA7209 Units: ug/1

Time:		14:41	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec

Copper
Lead 50 46.9 93.8

(\*) Outside of QC limits
(anr) Analyte not requested

\_\_\_\_\_

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: D81294
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA041416DW.REP Date Analyzed: 04/14/16 Methods: EPA 200.8 QC Limits: 50 to 150 % Recovery Run ID: MA7209 Units: ug/1

Time: Sample ID: Metal		D: CRI	CRIA True	08:03 CRI2 Results	% Rec
Copper	2.0	2.0	2.0	anr	
Lead	0.50	0.50	0.50	0.51	102.0

(\*) Outside of QC limits
(anr) Analyte not requested

\_\_\_\_

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D81294

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18451 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000047	<0.00050

Associated samples MP18451: D81294-1, D81294-2, D81294-3, D81294-4, D81294-5, D81294-6, D81294-7, D81294-8, D81294-9, D81294-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

\_\_\_\_

# 6.2.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81294 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Units: mg/l

QC Batch ID: MP18451 Methods: EPA 200.8

Prep Date:

04/13/16

Associated samples MP18451: D81294-1, D81294-2, D81294-3, D81294-4, D81294-5, D81294-6, D81294-7, D81294-8, D81294-9, D81294-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

Matrix Type: DRINKING WATER

**ACCUTEST** 

# 6.2.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81294
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18451 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81294-1 Original		Spikelot ICPALL2		MSD RPD	QC Limit
Copper						
Lead	0.0034	0.19	0.20	93.3	5.4	20

Associated samples MP18451: D81294-1, D81294-2, D81294-3, D81294-4, D81294-5, D81294-6, D81294-7, D81294-8, D81294-9, D81294-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

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ACCUTEST

# 6.2.3

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81294
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18451 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	BSP Result	Spikelot ICPALL2		QC Limits
Copper				
Lead	0.17	0.20	85.0	85-115

Associated samples MP18451: D81294-1, D81294-2, D81294-3, D81294-4, D81294-5, D81294-6, D81294-7, D81294-8, D81294-9, D81294-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

#### Login Number: D81294

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18452 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000018	<0.00050

Associated samples MP18452: D81294-11, D81294-12, D81294-13, D81294-14, D81294-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits  $\dot{\phantom{a}}$ 

(anr) Analyte not requested

# 0.3.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81294
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18452 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81333-1 Original		Spikelot ICPALL2		QC Limits
Copper					
Lead	0.0018	0.17	0.20	84.1	70-130

Associated samples MP18452: D81294-11, D81294-12, D81294-13, D81294-14, D81294-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

53 of 55 ACCUTEST

# 0.3.2

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81294
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18452 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/13/16

Metal	D81333-1 Original MSD	Spikelot ICPALL2 % Rec	MSD QC RPD Li
Copper			
Lead	0.0018 0.17	0.20 84.1	0.0 20

Associated samples MP18452: D81294-11, D81294-12, D81294-13, D81294-14, D81294-15

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81294 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18452 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/13/16

Associated samples MP18452: D81294-11, D81294-12, D81294-13, D81294-14, D81294-15

 ${\tt Results} \, < \, {\tt IDL} \, \, {\tt are} \, \, {\tt shown} \, \, {\tt as} \, \, {\tt zero} \, \, {\tt for} \, \, {\tt calculation} \, \, {\tt purposes} \, \,$ (\*) Outside of QC limits (anr) Analyte not requested

**ACCUTEST** 



## **ACCUTEST New Jersey**

04/25/16

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e-Hardcopy 2.0 **Automated Report** 

#### Technical Report for

#### **PARS** Environmental Services

WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

565-84

SGS Accutest Job Number: JC18609

Sampling Date: 04/19/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 RTorres@ParsEnviro.com

ATTN: Rafael Torres

Total number of pages in report: 38

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Maney +. Cole Nancy Cole Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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## **Sample Summary**

PARS Environmental Services

Job No:

JC18609

WWP Schools-Village School, 601 New Village Road, West Windsor, NJ Project No: 565-84

Sample	Collected			Matr	ix	Client
Number	Date	Time By	Received	Code	Type	Sample ID
JC18609-1	04/19/16	05:51 RT	04/19/16	DW	Drinking Water	VSE-02-B206-CF-P
JC18609-2	04/19/16	05:52 RT	04/19/16	DW	Drinking Water	VSE-02-B206-CF-F

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No JC18609

Site: WWP Schools-Village School, 601 New Village Road, West Winds Report Date 4/25/2016 2:35:20 PM

On 04/19/2016, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 5.6 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC18609 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

#### Metals By Method EPA 200.8

Matrix: DW Batch ID: MP93240

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC18611-1MS, JC18611-1MSD were used as the QC samples for metals.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

SGS 4 of ACCUTE

Summary of Hits

Page 1 of 1

Job Number: JC18609

**Account:** PARS Environmental Services

Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

**Collected:** 04/19/16

Lab Sample ID Client Sample ID Result/
Analyte Qual RL MDL Units Method

JC18609-1 VSE-02-B206-CF-P

Lead 0.0015 0.00050 mg/l EPA 200.8

JC18609-2 VSE-02-B206-CF-F

No hits reported in this sample.



# Section 4

Page 1 of 1

# **Report of Analysis**

Client Sample ID: VSE-02-B206-CF-P

Lab Sample ID:JC18609-1Date Sampled:04/19/16Matrix:DW - Drinking WaterDate Received:04/19/16Percent Solids:n/a

Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0015	0.015	0.00050	0 mg/1	1	04/20/16	04/20/16 јо	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39225(2) Prep QC Batch: MP93240

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)



Page 1 of 1

## **Report of Analysis**

Client Sample ID: VSE-02-B206-CF-F

Lab Sample ID:JC18609-2Date Sampled:04/19/16Matrix:DW - Drinking WaterDate Received:04/19/16Percent Solids:n/a

Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

#### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	60 mg/l	1	04/20/16	04/20/16 јо	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA39225(2) Prep QC Batch: MP93240

RL = Reporting Limit

MCL = Maximum Contamination Level (NJAC 7:10 11/04)





# **Section 5**

Misc. Forms

**Custody Documents and Other Forms** 

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

	ACCUTE		DW		СНА					OL	Υ				F	FD-FX	(Tracking #				le .				1	OF _	
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	Client / Reporting Informati	ion				www	accutest.								ľ	ocutes	t Quote #				Acc	utest Jol	#		50	186	209
Como	any Name	1011	Project Name:		Proje	ct Inform	nation										Reque	sted	Analys	is ( se	TEST	COD	E she	et)		5000000	Matrix Code:
Comp																								T	T		
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<u> </u>	Robbinsville, NJ 08691		West	Windsor	NJ																						SL- Sludge ED-Sediment
	t Contact	E-mail	Project #			Street A	ddress		_		_	_			$\dashv$	Ì										- F	OI - Oil
Phone	fael L. Torres, III	Fax#		55-84												- 1						-			- 1	LIQ	Other Liquit
609	9-890-7277	509-890-9116	Client Purchase	Order#		City				State	9		2	ip									-			SO	L - Other Solid WP - Wipe
	er(s) Name(s)	Phone #	Project Manager	,		Attention	n:									- 1		1								FE	B-Field Blank
	Rafael L. Torres, III	09-254-8884	Rafael L	. Torres, III		ratemo												- 1									quipment Bla 3- Rinse Blank
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2	VSE-02-B206-CF-F			4/19/16	0552	RT	DW	1	1	H.	1	+	$^{+}$	++		1	$\dashv$	+	+-	+	+-	+-	+-	+	+	<i></i>	A15
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JC18609: Chain of Custody

Page 1 of 2

# 5.1

### U

Job Number:	JC18609	Client:		Project:			
Date / Time Received:	4/19/2016 4:45:00	PM	Delivery Method:	Airbill #'s:			
Cooler Temps (Raw Mea	,						
Cooler Security  1. Custody Seals Present: 2. Custody Seals Intact:  Cooler Temperature  1. Temp criteria achieved: 2. Cooler temp verification	Y or N ✓	_ ]		Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:  Sample Integrity - Condition 1. Sample recvd within HT:	Y V V Y	or N	
<ul><li>3. Cooler media:</li><li>4. No. Coolers:</li></ul>	Ice (Bag	3)		2. All containers accounted for: 3. Condition of sample:	<b>✓</b>	☐ Intact	
Quality Control Present  1. Trip Blank present / coc  2. Trip Blank listed on CO  3. Samples preserved pro  4. VOCs headspace free:	c:			Sample Integrity - Instructions  1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis: 4. Compositing instructions clear: 5. Filtering instructions clear:	Y	or N	N/A
Comments				5. Fillering instructions clear.			E

**SGS Accutest Sample Receipt Summary** 

JC18609: Chain of Custody

Page 2 of 2

# **Internal Sample Tracking Chronicle**

PARS Environmental Services

Job No: JC18609

WWP Schools-Village School, 601 New Village Road, West Windsor, NJ Project No: 565-84

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
JC18609-1 VSE-02-B2	Collected: 19-APR-16 06-CF-P	05:51 By: RT	Receiv	ed: 19-APR	-16 By	: AS
JC18609-1	EPA 200.8	20-APR-16 12:03	JO	20-APR-16	JO	PBMS
JC18609-2 VSE-02-B2	Collected: 19-APR-16 06-CF-F	05:52 By: RT	Receiv	ed: 19-APR	-16 By	: AS
JC18609-2	EPA 200.8	20-APR-16 12:06	JO	20-APR-16	JO	PBMS

Page 1 of 1

# **SGS Accutest Internal Chain of Custody**

Job Number: JC18609

**Account:** PARS PARS Environmental Services

Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

**Received:** 04/19/16

Sample. Bottle	Transfer	Transfer	D-4-/T:	D
Number	FROM	TO	Date/Time	Reason
JC18609-1.1	Secured Storage	Jaclyn O'Connor	04/20/16 11:23	Retrieve from Storage
JC18609-1.1	Jaclyn O'Connor	Secured Storage	04/20/16 14:40	Return to Storage
JC18609-1.1	Secured Storage	Christopher Hall	04/20/16 15:46	Retrieve from Storage
JC18609-1.1	Christopher Hall	Secured Staging Area	04/20/16 15:47	Return to Storage
JC18609-1.1	Secured Staging Area	Christopher Hall	04/20/16 15:47	Retrieve from Storage
JC18609-1.1	Shirley Grzybowski	Secured Storage	04/23/16 07:21	Return to Storage
Analyst unavailab	ole for custody transfer.	-		_
JC18609-2.1	Secured Storage	Jaclyn O'Connor	04/20/16 11:23	Retrieve from Storage
JC18609-2.1	Jaclyn O' Connor	Secured Storage	04/20/16 14:40	Return to Storage
JC18609-2.1	Secured Storage	Christopher Hall	04/20/16 15:46	Retrieve from Storage
JC18609-2.1	Christopher Hall	Secured Staging Area	04/20/16 15:47	Return to Storage
JC18609-2.1	Secured Staging Area	Christopher Hall	04/20/16 15:47	Retrieve from Storage
JC18609-2.1	Shirley Grzybowski	Secured Storage	04/23/16 07:21	Return to Storage
Analyst unavailab	ole for custody transfer.	J		<u> </u>



Section 6

## Metals Analysis

## QC Data Summaries

### Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

Methods: EPA 200.8

File ID: XB042016W1.CSV

Date Analyzed: 04/20/16 Run ID: MA39225

Analyst: JO Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:13	MA39225-STD1	1		STDA
10:17	MA39225-STD2	1		STDA
10:20	MA39225-STD3	1		STDA
10:23	MA39225-STD4	1		STDB1
10:26	MA39225-STD5	1		STDB
10:30	MA39225-STD6	1		STDC
10:33	MA39225-STD7	1		STDD
10:36	MA39225-STD8	1		STDE
10:39	MA39225-STD9	1		STDF
10:43	MA39225-STD10	1		STDG
10:46	MA39225-STD11	1		STDH
10:49	MA39225-STD12	1		STDI
10:53	MA39225-STD13	1		STDJ
11:02	ZZZZZZ	1		
11:06	MA39225-ICVA1	1		
11:09	MA39225-ICV1	1		60ppb Al.
11:12	MA39225-ICB1	1		
11:16	MA39225-CRI1	1		
11:19	MA39225-CRIA1	1		0.3ppb Be, 1ppb As and Se
11:22	MA39225-CCVA1	1		
11:26	MA39225-CCB1	1		
11:29	MP93240-MB1	1		
11:32	MP93240-B1	1		
11:35	MP93240-S1	1		To reanalysis, FB used as QC
11:39	MP93240-S2	1		To reanalysis, FB used as QC
11:42	JC18558-2	1		(sample used for QC only; not part of login JC18609)
11:45	ZZZZZZ	1		
11:49	ZZZZZZ	1		
11:52	ZZZZZZ	1		
		1		
11:59	MA39225-CCB2	1		
	JC18609-1			
12:06	JC18609-2	1		

#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: JC18609

Account: PARS - PARS Environmental Services

Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

Run ID: MA39225

Methods: EPA 200.8

Date Analyzed: 04/20/16

Analyst: JO Parameters: Pb

File ID: XB042016W1.CSV

Sample Dilution PS Description Time Factor Recov Comments 2 12:10 MP93240-B1 Last reportable sample/prep for job JC1860912:13 MP93240-S1 2 Not needed 12:16 MP93240-S2 2 Not needed 12:20 MP93240-S1 1 Ag 12:24 MA39225-CCVA3 12:27 MA39225-CCB3 Last reportable CCB for job JC18609 12:30 MP93239-MB1 1 12:34 MP93239-B1 1 12:37 MP93239-S1 1 12:40 MP93239-S2 1 12:44 ZZZZZZ 1 12:47 JC18578-1 (sample used for QC only; not part of login JC18609) 12:50 ZZZZZZ 12:54 ZZZZZZ 12:57 ZZZZZZ 13:00 MA39225-CCVA4 1 13:04 MA39225-CCB4 1 13:07 ZZZZZZ 13:11 ZZZZZZ 1 13:14 ZZZZZZ 13:17 ZZZZZZ 1 13:21 ZZZZZZ 1

Refer to raw data for calibration curve and standards.

1

13:24 MA39225-CCVA5

13:28 MA39225-CCB5

# Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

Methods: EPA 200.8

File ID: XB042016W1.CSV

Date Analyzed: 04/20/16 Run ID: MA39225

Analyst: JO Parameters: Pb

Para	meters: Pb								
Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
10:13	MA39225-STD1	100	100	100	100	100	100	100	100
10:17	MA39225-STD2	100	100	100	100	100	100	100	100
10:20	MA39225-STD3	100	100	100	100	100	100	100	100
10:23	MA39225-STD4	97.136	100.109	99.561	99.894	98.21	99.583	100.206	100.63
10:26	MA39225-STD5	101.693	100.647	101.766	100.965	99.612	100.872	101.65	102.393
10:30	MA39225-STD6	98.284	99.834	101.03	100.644	100.017	100.176	100.852	101.396
10:33	MA39225-STD7	98.599	99.974	100.638	100.73	99.689	99.619	100.899	101.788
10:36	MA39225-STD8	97.958	99.632	100.451	100.08	99.249	100.486	101.413	101.361
10:39	MA39225-STD9	99.138	98.591	99.784	101.28	98.602	99.536	100.539	101.681
10:43	MA39225-STD10	98.083	100.336	100.348	100.016	99.373	100.65	100.264	101.467
10:46	MA39225-STD11	99.312	99.829	100.302	100.779	98.827	100.791	101.614	102.107
10:49	MA39225-STD12	96.135	98.643	99.745	99.27	96.553	98.533	100.237	101.613
10:53	MA39225-STD13	96.667	99.986	101.866	99.976	96.577	99.371	101.404	102.498
11:02	ZZZZZZ	101.15	102.874	102.6	103.465	101.676	101.813	101.364	101.571
11:06	MA39225-ICVA1	99.621	100.65	102.413	102.603	98.268	100.467	101.872	103.022
11:09	MA39225-ICV1	99.284	100.065	100.578	100.934	99.631	100.382	100.699	101.331
11:12	MA39225-ICB1	101.772	101.299	101.574	102.309	100.269	101.212	100.726	101.775
11:16	MA39225-CRI1	103.191	101.487	101.802	102.612	100.562	101.989	102.189	102.51
11:19	MA39225-CRIA1	102.388	100.791	101.076	101.311	101.02	101.674	100.868	101.758
11:22	MA39225-CCVA1	105.243	102.025	102.666	101.204	98.976	100.591	102.794	103.722
11:26	MA39225-CCB1	104.41	100.998	100.111	100.443	100.072	101.211	100.949	102.177
11:29	MP93240-MB1	103.833	102.082	101.447	101.798	100.626	101.429	101.543	102.27
11:32	MP93240-B1	105.038	101.973	101.762	102.449	99.762	101.323	101.722	103.105
11:35	MP93240-S1	No result	s reported	for the	elements as	sociated w	ith this i	internal st	andard.
11:39	MP93240-S2	No result	s reported	for the	elements as	sociated w	ith this i	internal st	andard.
11:42	JC18558-2	122.105	103.478	102.754	104.284	102.779	103.229	103.53	105.186
11:45	ZZZZZZ	118.515	102.114	102.017	102.763	96.27	101.457	102.957	104.124
11:49	ZZZZZZ	120.827	102.137	102.434	102.788	96.758	101.583	103.919	106.015
11:52	ZZZZZZ	126.237 !	a102.526	102.168	102.932	99.78	104.033	105.656	107.127
11:55	MA39225-CCVA2	110.891	100.431	100.322	100.636	96.85	98.51	101.64	102.81
11:59	MA39225-CCB2	110.071	100.531	99.881	99.991	99.176	99.896	99.77	101.414
12:03	JC18609-1	117.916	101.317	100.808	101.629	95.472	99.812	101.712	103.33
12:06	JC18609-2	121.735	102.325	101.834	102.631	97.801	102.345	104.783	105.508

# Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XB042016W1.CSV Date Analyzed: 04/20/16 Methods: EPA 200.8 Run ID: MA39225

Analyst: JO Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
12:10	MP93240-B1	108.892	98.815	98.794	99.089	97.406	98.312	98.688	99.524
12:13	MP93240-S1	No result	s reported	for the	elements	associated	with this	internal	standard.
12:16	MP93240-S2	No result	s reported	for the	elements	associated	with this	internal	standard.
12:20	MP93240-S1	No result	s reported	for the	elements	associated	with this	internal	standard.
12:24	MA39225-CCVA3	109.476	97.422	97.657	97.844	94.868	97.472	99.595	100.945
12:27	MA39225-CCB3	106.052	97.307	96.198	96.016	96.516	96.739	97.65	99.734
12:30	MP93239-MB1	107.104	96.636	95.749	95.961	96.2	96.985	97.427	98.175
12:34	MP93239-B1	105.706	97.314	97.781	98.369	95.633	96.475	97.973	99.381
12:37	MP93239-S1	118.238	99.873	99.742	100.837	96.453	99.346	101.996	103.612
12:40	MP93239-S2	117.812	96.894	97.211	98.43	93.906	97.311	100.812	102.342
12:44	ZZZZZZ	110.394	95.257	95.335	96.402	95.165	96.771	97.271	98.386
12:47	JC18578-1	117.767	98.111	97.517	99.116	94.084	96.427	99.447	101.276
12:50	ZZZZZZ	120.903	98.03	98.046	98.192	94.212	98.739	100.707	102.592
12:54	ZZZZZZ	121.069	97.952	98.449	98.978	94.767	98.714	101.634	103.838
12:57	ZZZZZZ	125.345 !	a101.104	99.124	101.001	97.389	101.317	103.868	105.776
13:00	MA39225-CCVA4	111.684	95.019	95.504	95.068	93.41	95.257	98.603	100.406
13:04	MA39225-CCB4	108.561	95.146	93.067	94.484	93.779	95.648	95.668	96.727
13:07	ZZZZZZ	115.934	91.858	90.804	91.386	88.169	91.588	96.387	98.4
13:11	ZZZZZZ	126.404 !	a98.252	99.178	99.658	97.116	100.844	103.898	106.355
13:14	ZZZZZZ	123.8	97.223	98.112	98.421	95.338	99.116	102.1	104.269
13:17	ZZZZZZ	122.23	98.942	98.354	99.57	95.146	98.735	103.358	104.843
13:21	ZZZZZZ	122.261	101.136	101.712	101.294	97.456	100.899	103.808	106.488
13:24	MA39225-CCVA5	112.678	99.422	100.03	99.454	97.33	99.18	103.883	104.777
13:28	MA39225-CCB5	108.781	98.619	99.215	99.4	98.215	98.274	99.497	101.455

#### ! = Outside limits.

#### LEGEND:

PROPIND .				
Istd#	Parameter		Limits	
Istd#1	Lithium		60-125	용
Istd#2	Scandium		60-125	용
Istd#3	Germanium	(72-1)	60-125	용
Istd#4	Germanium	(74-1)	60-125	용
Istd#5	Rhodium		60-125	용
Istd#6	Indium		60-125	용
Istd#7	Terbium		60-125	용
Istd#8	Holmium		60-125	왕

(a) No samples reported for the elements associated with this internal standard.

# Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XB042016W1.CSV Date Analyzed: 04/20/16 Methods: EPA 200.8 Analyst: JO Run ID: MA39225

Parameters: Pb

Time	Sample Description	Istd#9
10:13	MA39225-STD1	100
10:17	MA39225-STD2	100
10:20	MA39225-STD3	100
10:23	MA39225-STD4	100.54
10:26	MA39225-STD5	101.62
10:30	MA39225-STD6	101.19
10:33	MA39225-STD7	102.137
10:36	MA39225-STD8	102.603
10:39	MA39225-STD9	102.713
10:43	MA39225-STD10	100.454
10:46	MA39225-STD11	101.155
10:49	MA39225-STD12	99.869
10:53	MA39225-STD13	99.487
11:02	ZZZZZZ	100.847
11:06	MA39225-ICVA1	102.055
11:09	MA39225-ICV1	101.34
11:12	MA39225-ICB1	101.642
11:16	MA39225-CRI1	102.242
11:19	MA39225-CRIA1	102.023
11:22	MA39225-CCVA1	101.517
11:26	MA39225-CCB1	102.023
11:29	MP93240-MB1	101.889
11:32	MP93240-B1	102.405
11:35	MP93240-S1	No results reported for the elements associated with this internal standard.
11:39	MP93240-S2	No results reported for the elements associated with this internal standard.
11:42	JC18558-2	105.996
11:45	ZZZZZZ	101.353
11:49	ZZZZZZ	103.168
11:52	ZZZZZZ	110.851
11:55	MA39225-CCVA2	101.56
11:59	MA39225-CCB2	101.351
12:03	JC18609-1	99.33
12:06	JC18609-2	101.898



# Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XB042016W1.CSV Date Analyzed: 04/20/16 Methods: EPA 200.8 Run ID: MA39225

Analyst: JO Parameters: Pb

Time	Sample Description	Istd#9
12:10	MP93240-B1	101.109
12:13	MP93240-S1	No results reported for the elements associated with this internal standard.
12:16	MP93240-S2	No results reported for the elements associated with this internal standard.
12:20	MP93240-S1	No results reported for the elements associated with this internal standard.
12:24	MA39225-CCVA3	99.488
12:27	MA39225-CCB3	99.198
12:30	MP93239-MB1	98.782
12:34	MP93239-B1	100.245
12:37	MP93239-S1	101.457
12:40	MP93239-S2	100.752
12:44	ZZZZZZ	98.931
12:47	JC18578-1	99.818
12:50	ZZZZZZ	101.232
12:54	ZZZZZZ	102.381
12:57	ZZZZZZ	104.805
13:00	MA39225-CCVA4	100.809
13:04	MA39225-CCB4	97.436
13:07	ZZZZZZ	98.517
13:11	ZZZZZZ	105.093
13:14	ZZZZZZ	103.696
13:17	ZZZZZZ	102.479
13:21	ZZZZZZ	103.51
13:24	MA39225-CCVA5	103.826
13:28	MA39225-CCB5	102.352
! = Ou	tside limits.	
LEGEND	):	

LEGEND:

 Istd#
 Parameter
 Limits

 Istd#9
 Bismuth
 60-125 %

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

#### Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: result < RL

Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8 Units: ug/l

Time: Sample ID:			11:12 ICB1		11:26 CCB1		11:59 CCB2		12:27 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	50	.1								
Antimony	2.0	.12	anr							
Arsenic	1.0	.38	anr							
Barium	1.0	.011								
Beryllium	0.30	.004	anr							
Boron	50	3.2								
Cadmium	0.50	.008	anr							
Calcium	250	2.7								
Chromium	4.0	.019								
Cobalt	0.50	.003								
Copper	4.0	.02								
Iron	50	1.1								
Lead	0.50	.009	0.0059	<0.50	0.018	<0.50	0.027	<0.50	0.042	<0.50
Magnesium	250	.17								
Manganese	1.0	.019								
Molybdenum	1.0	.02								
Nickel	4.0	.028								
Potassium	250	2								
Selenium	1.0	.29	anr							
Silver	2.0	.019	anr							
Sodium	250	3.9								
Strontium	1.0	.009								
Thallium	0.50	.016	anr							
Tin	1.0	.039								
Titanium	1.0	.034								
Vanadium	4.0	.11								
Zinc	10	. 29								

(\*) Outside of QC limits (anr) Analyte not requested

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	ICVA True	11:06 ICVA1 Results	% Rec	ICV True	11:09 ICV1 Results	% Rec	CCVA True	11:22 CCVA1 Results	% Rec	
Aluminum										
Antimony	anr									
Arsenic	anr									
Barium										
Beryllium	anr									
Boron										
Cadmium	anr									
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	60	57.8	96.3				50	50.6	101.2	
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium	anr									
Silver	anr									
Sodium										
Strontium										
Thallium	anr									
Tin										
Titanium										
Vanadium										
Zinc										

(\*) Outside of QC limits (anr) Analyte not requested

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/20/16 Run ID: MA39225

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	CCVA True	11:55 CCVA2 Results	% Rec	CCVA True	12:24 CCVA3 Results	% Rec
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium						
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	50	47.6	95.2	50	47.7	95.4
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc						

(\*) Outside of QC limits (anr) Analyte not requested

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

#### Login Number: JC18609 Account: PARS - PARS Environmental Services

Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XB042016W1.CSV QC Limits: 70 to 130 % Recovery

Date Analyzed: 04/20/16 Run ID: MA39225 Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal		CRIA True	11:16 CRI1 Results	% Rec	11:19 CRIA1 Results	% Rec
Aluminum	25	25				
Antimony	2.0	0.25	anr			
Arsenic	0.50	1.0				
Barium	1.0	0.50				
Beryllium	0.50	0.30	anr			
Boron	25	2.5				
Cadmium	0.50	0.25	anr			
Calcium	250	125				
Chromium	1.0	2.0				
Cobalt	0.50	0.25				
Copper	2.0	2.0				
Iron	25	25				
Lead	0.50	0.25	0.50	100.0		
Magnesium	250	125				
Manganese	0.50	0.25				
Molybdenum	1.0	0.50				
Nickel	1.0	2.0				
Potassium	250	125				
Selenium	0.50	1.0	anr			
Silver	0.50	1.0	anr			
Sodium	250	125				
Strontium	5.0	0.50				
Thallium	0.50	0.25	anr			
Tin	5.0	0.50				
Titanium	1.0	0.50				
Vanadium	1.0	2.0				
Zinc	5.0	2.0				

(\*) Outside of QC limits (anr) Analyte not requested

SGS 24 of 38
ACCUTEST

#### SGS Accutest Instrument Runlog Inorganics Analyses

#### Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

Methods: EPA 200.8

Analyst: JO Parameters: Pb

File ID: XA042116W1.CSV

Date Analyzed: 04/21/16 Run ID: MA39233

Time	Sample Description	Dilutior Factor	n PS Recov	Comments
09:32	MA39233-STD1	1		STDA
09:35	MA39233-STD2	1		STDA
09:38	MA39233-STD3	1		STDA
09:41	MA39233-STD4	1		STDB1
09:44	MA39233-STD5	1		STDB
09:48	MA39233-STD6	1		STDC
09:51	MA39233-STD7	1		STDD
09:54	MA39233-STD8	1		STDE
09:57	MA39233-STD9	1		STDF
10:00	MA39233-STD10	1		STDG
10:03	MA39233-STD11	1		STDH
10:06	MA39233-STD12	1		STDI
10:10	MA39233-STD13	1		STDJ
10:14	MA39233-STD14	1		STDA
10:17	ZZZZZZ	1		
10:20	ZZZZZZ	1		
10:24	MA39233-ICVA1	1		
10:27	MA39233-ICV1	1		60ppb Al
10:33	MA39233-ICB1	1		
10:36	MA39233-CRI1	1		
10:39	MA39233-CRIA1	1		0.3ppb Be, 1ppb As and Se
10:42	MA39233-CCVA1	1		
10:45	MA39233-CCB1	1		
11:05	MP93240-MB2	1		
11:09	MP93240-B2	1		
11:12	MP93240-B2	2		Ag
11:15	MP93240-S1	1		
11:18	MP93240-S2	1		
11:21	ZZZZZZ	1		
11:24	MA39233-CCVA2	1		
11:28	MA39233-CCB2	1		
11:31	MP93240-S1	2		Ag
	MP93240-S2 eportable sample	2 e/prep for	job JC18	Ag 3609

#### SGS Accutest Instrument Runlog Inorganics Analyses

Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

Methods: EPA 200.8

File ID: XA042116W1.CSV

Date Analyzed: 04/21/16 Run ID: MA39233

Analyst: JO Parameters: Pb

Time	Sample Description	Dilution PS Factor Recov	Comments
11:37	JC18611-1	1	(sample used for QC only; not part of login JC18609)
11:40	ZZZZZZ	1	
11:44	ZZZZZZ	1	
11:47	ZZZZZZ	1	
11:50	MA39233-CCVA3	1	
	MA39233-CCB3 reportable CCB fo	1 or job JC18609	

Refer to raw data for calibration curve and standards.

#### Login Number: JC18609 Account: PARS - PARS Environmental Services

Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

Methods: EPA 200.8

File ID: XA042116W1.CSV

Analyst: JO

Date Analyzed: 04/21/16

Run ID: MA39233

Parameters: Pb Sample Istd#1 Istd#2 Istd#3 Istd#4 Istd#5 Istd#6 Istd#8 Time Description Istd#7 MA39233-STD1 100 100 100 100 100 100 100 100 09:32 09:35 MA39233-STD2 100 100 100 100 100 100 100 100 09:38 MA39233-STD3 100 100 100 100 100 100 100 100 09:41 MA39233-STD4 97 892 98 055 99 15 98 605 99 536 99 432 101 708 99 92 09:44 MA39233-STD5 96.884 98.682 99.226 98.547 99.78 100.579 99.311 100.083 09:48 MA39233-STD6 97.311 98.911 99.972 98.5 100.397 100.198 100.025 100.312 97 529 100 298 09:51 MA39233-STD7 97 426 98 528 97 926 99.863 100.138 99 726 09:54 MA39233-STD8 99.084 101.896 101.873 102.258 103.32 103.159 104.084 104.974 09:57 MA39233-STD9 96.317 97.677 99.274 97.706 99.07 99.341 100.221 100.798 MA39233-STD10 95.972 97.204 98.717 97.237 100.757 100.956 10:00 99.658 100.851 10:03 MA39233-STD11 97.523 98.36 99.757 98.163 99.501 100.777 100.451 100.908 MA39233-STD12 97.043 98.107 98.633 99.316 98.419 99.65 100.856 100.866 MA39233-STD13 10:10 96.287 98.831 99.458 98.306 96.839 98.317 100.384 101.159 10:14 MA39233-STD14 100 100 100 100 100 100 100 100 10:17 ZZZZZZ 97.872 99.211 99.136 99.795 99.551 99.577 101.436 100.919 10:20 97.316 99.905 99.748 100.238 ZZZZZZ 100.42 100.506 100.73 100.684 10:24 MA39233-ICVA1 96.565 100.703 101.575 100.144 98.59 99.856 101.778 101.649 10:27 MA39233-ICV1 96.937 99.935 99.001 98.781 100.124 100.364 101.165 99.978 10:33 MA39233-TCB1 98 791 100 81 101 466 100 962 101 509 101 324 100 977 101 085 10:36 MA39233-CRI1 97.19 100.814 98.991 99.101 101.035 100.703 101.718 101.216 10:39 MA39233-CRIA1 96.676 99.7 99.795 98.089 100.507 101.001 101.069 100.832 10:42 MA39233-CCVA1 97 454 100 363 100 798 99 396 99 352 100 221 102 003 101 67 10:45 MA39233-CCB1 98.871 101.669 99.548 99.598 100.983 101.549 101.059 100.669 11:05 MP93240-MB2 98.162 99.623 99.999 100.34 101.81 100.315 101.631 100.685 11:09 MP93240-B2 99.591 101.858 101.512 102.164 100 101.528 101.121 102.156 11:12 MP93240-B2 98.058 100.182 99.768 100.163 99.977 100.795 101.672 101.77 11:15 MP93240-S1 111.538 112.37 108.087 108.607 102.134 104.553 103.64 103.933 11:18 MP93240-S2 110.785 111.772 107.199 107.115 100.885 102.668 101.806 101.959 11:21 ZZZZZZ 99.701 100.916 99.253 99.874 100.542 100.087 100.354 100.1 MA39233-CCVA2 96.786 100.398 100.804 100.66 99.172 100.137 101.696 101.823 11:28 MA39233-CCB2 97.918 99.844 99.722 99.421 100.416 100.326 100.573 99.657 11:31 MP93240-S1 101.643 108.259 103.923 104.012 100.666 102.822 102.291 101.738 11:34 MP93240-S2 102.604 107.823 105.25 105.271 100.315 103.243 102.349 102.287

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#### Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XA042116W1.CSV

Date Analyzed: 04/21/16 Run ID: MA39233

Methods: EPA 200.8

Analyst: JO Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
11:37	JC18611-1	110.62	114.353	109.841	109.657	103.12	106.031	103.884	103.743
11:40	ZZZZZZ	112.201	115.459	109.628	109.674	103.693	105.594	104.725	103.961
11:44	ZZZZZZ	112.953	116.201	112.303	112.885	104.03	107.121	105.5	104.76
11:47	ZZZZZZ	97.814	102.509	102.309	102.404	103.252	102.89	101.889	102.386
11:50	MA39233-CCVA3	95.881	100.444	102.521	101.507	99.057	100.897	102.901	102.252
11:53	MA39233-CCB3	97.079	101.581	101.203	102.108	102.399	102.495	102.567	102.198

#### ! = Outside limits.

#### LEGEND:

PPOPIAD -		
Istd#	Parameter	Limits
Istd#1	Lithium	60-125 %
Istd#2	Scandium	60-125 %
Istd#3	Germanium (72-1)	60-125 %
Istd#4	Germanium (74-1)	60-125 %
Istd#5	Rhodium	60-125 %
Istd#6	Indium	60-125 %
Istd#7	Terbium	60-125 %
Istd#8	Holmium	60-125 %



# Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XA042116W1.CSV Analyst: JO

Parameters: Pb

Date Analyzed: 04/21/16

Run ID: MA39233

Methods: EPA 200.8

Time	Sample Description	Istd#9
09:32	MA39233-STD1	100
09:35	MA39233-STD2	100
09:38	MA39233-STD3	100
09:41	MA39233-STD4	101.595
09:44	MA39233-STD5	100.682
09:48	MA39233-STD6	101.637
09:51	MA39233-STD7	101.83
09:54	MA39233-STD8	105.123
09:57	MA39233-STD9	102.151
10:00	MA39233-STD10	100.667
10:03	MA39233-STD11	101.38
10:06	MA39233-STD12	100.576
10:10	MA39233-STD13	99.324
10:14	MA39233-STD14	100
10:17	ZZZZZZ	102.538
10:20	ZZZZZZ	101.443
10:24	MA39233-ICVA1	100.427
10:27	MA39233-ICV1	101.038
10:33	MA39233-ICB1	101.421
10:36	MA39233-CRI1	102.191
10:39	MA39233-CRIA1	101.35
10:42	MA39233-CCVA1	100.582
10:45	MA39233-CCB1	101.323
11:05	MP93240-MB2	102.217
11:09	MP93240-B2	101.943
11:12	MP93240-B2	102.106
11:15	MP93240-S1	98.223
11:18	MP93240-S2	97.115
11:21	ZZZZZZ	100.969
11:24	MA39233-CCVA2	100.613
11:28	MA39233-CCB2	100.503
11:31	MP93240-S1	100.237
11:34	MP93240-S2	101.953

Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

Methods: EPA 200.8

File ID: XA042116W1.CSV

Date Analyzed: 04/21/16 Run ID: MA39233

Analyst: JO Parameters: Pb

Time	Sample Description	Istd#9	
11:37	JC18611-1	99.334	
11:40	ZZZZZZ	98.371	
11:44	ZZZZZZ	96.489	
11:47	ZZZZZZ	102.527	
11:50	MA39233-CCVA3	100.652	
11:53	MA39233-CCB3	102.19	
! = Ou	tside limits.		
LEGEND			Limits
<u>Istd#</u> Istd#9			60-125 %

#### BLANK RESULTS SUMMARY Part 1 - Initial and Continuing Calibration Blanks

#### Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XA042116W1.CSV QC Limits: result < RL

Date Analyzed: 04/21/16 Run ID: MA39233

Methods: EPA 200.8 Units: ug/l

Time: Sample ID:			10:33 ICB1		10:45 CCB1		11:28 CCB2		11:53 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	50	.94								
Antimony	2.0	.1	anr							
Arsenic	1.0	.69	anr							
Barium	1.0	.033								
Beryllium	0.30	.008	anr							
Boron	50	1.5								
Cadmium	0.50	.02	anr							
Calcium	250	9.7								
Chromium	4.0	.049								
Cobalt	0.50	.014								
Copper	4.0	.15								
Iron	50	6.3								
Lead	0.50	.007	0.020	<0.50	0.027	<0.50	0.022	<0.50	0.020	<0.50
Magnesium	250	.063								
Manganese	1.0	.04								
Molybdenum	1.0	.016								
Nickel	4.0	.037								
Potassium	250	7.2								
Selenium	1.0	.38	anr							
Silver	2.0	.006	anr							
Sodium	250	.34								
Strontium	1.0	.01								
Thallium	0.50	.015	anr							
Tin	1.0	.035								
Titanium	1.0	.098								
Vanadium	4.0	. 29								
Zinc	10	.11								

(\*) Outside of QC limits (anr) Analyte not requested

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XA042116W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/21/16 Run ID: MA39233

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal		10:24 ICVA1 Results	% Rec	ICV True	10:27 ICV1 Results	% Rec	CCVA True	10:42 CCVA1 Results	% Rec	
Aluminum										
Antimony	anr									
Arsenic	anr									
Barium										
Beryllium	anr									
Boron										
Cadmium	anr									
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	60	60.8	101.3				50	51.5	103.0	
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium	anr									
Silver	anr									
Sodium										
Strontium										
Thallium	anr									
Tin										
Titanium										
Vanadium										
Zinc										

(\*) Outside of QC limits (anr) Analyte not requested

#### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

#### Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XA042116W1.CSV QC Limits: 90 to 110 % Recovery Date Analyzed: 04/21/16 Run ID: MA39233

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal	CCVA True	11:24 CCVA2 Results	% Rec	CCVA True	11:50 CCVA3 Results	% Rec
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium						
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	50	51.4	102.8	50	51.2	102.4
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc						

(\*) Outside of QC limits (anr) Analyte not requested

#### LOW CALIBRATION CHECK STANDARDS SUMMARY

# Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

File ID: XA042116W1.CSV QC Limits: 70 to 130 % Recovery

Date Analyzed: 04/21/16 Run ID: MA39233

Methods: EPA 200.8 Units: ug/l

Time: Sample ID: Metal		CRIA True	10:36 CRI1 Results	% Rec	10:39 CRIA1 Results	% Rec	
Aluminum	25	25					
Antimony	2.0	0.25	anr				
Arsenic	0.50	1.0					
Barium	1.0	0.50					
Beryllium	0.50	0.30					
Boron	25	2.5					
Cadmium	0.50	0.25	anr				
Calcium	250	125					
Chromium	1.0	2.0					
Cobalt	0.50	0.25					
Copper	2.0	2.0					
Iron	25	25					
Lead	0.50	0.25	0.50	100.0			
Magnesium	250	125					
Manganese	0.50	0.25					
Molybdenum	1.0	0.50					
Nickel	1.0	2.0					
Potassium	250	125					
Selenium	0.50	1.0					
Silver	0.50	1.0	anr				
Sodium	250	125					
Strontium	5.0	0.50					
Thallium	0.50	0.25	anr				
Tin	5.0	0.50					
Titanium	1.0	0.50					
Vanadium	1.0	2.0					
Zinc	5.0	2.0					

(\*) Outside of QC limits (anr) Analyte not requested

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

#### Login Number: JC18609

Account: PARS - PARS Environmental Services

Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

QC Batch ID: MP93240 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

04/20/16 Prep Date:

Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.050	.0001	.00074		
Antimony	0.0020	.0001	.00021		
Arsenic	0.0010	.00038	.00081		
Barium	0.0010	.000011	.000044		
Beryllium	0.00030	.000004	.000079		
Boron	0.050	.0015			
Cadmium	0.00050	.000008	.000041		
Calcium	0.25	.0027	.0075		
Chromium	0.0040	.000019	.00018		
Cobalt	0.00050	.000003	.000014		
Copper	0.0040	.00002	.0012		
Iron	0.050	.0011	.009		
Lead	0.00050	.000007	.000018	0.00011	<0.00050
Magnesium	0.25	.000063	.00051		
Manganese	0.0010	.000019	.00006		
Molybdenum	0.0010	.000016	.000059		
Nickel	0.0040	.000028	.00023		
Potassium	0.25	.002	.015		
Selenium	0.0010	.00029	.00051		
Silver	0.0020	.000006	.000022		
Sodium	0.25	.00034	.015		
Strontium	0.0010	.000009	.000014		
Thallium	0.00050	.000015	.0001		
Tin	0.0010	.000035	.000043		
Titanium	0.0010	.000034	.00038		
Vanadium	0.0040	.00011	.00082		
Zinc	0.010	.00011	.00061		

Associated samples MP93240: JC18609-1, JC18609-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC18609

Account: PARS - PARS Environmental Services
Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

QC Batch ID: MP93240 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

04/21/16

Metal	JC18611-1 Original MS	Spikelot MPXDW7	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium				
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.00011 0.10	0.10	99.9	70-130
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP93240: JC18609-1, JC18609-2

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested



#### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

#### Login Number: JC18609 Account: PARS - PARS Environmental Services

Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

QC Batch ID: MP93240 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

04/21/16

Antimony anr Araenic anr Barium Beryllium anr Boron Cadmium anr Colacium Chromium Cobalt Copper Iron Lead 0.00011 0.11 0.10 109.9 9.5 20 Magnesium Manganese Molybdenum Nickel Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Metal	JC18611-1 Original MSD	Spikelot MPXDW7	% Rec	MSD RPD	QC Limit
Arsenic anr Barium Beryllium anr Boron Cadmium anr Calcium Chromium Cobalt Copper Iron Lead 0.00011 0.11 0.10 109.9 9.5 20 Magnesium Manganese Molybdenum Nickel Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Aluminum					
Barium Beryllium anr Boron Cadmium anr Calcium Chromium Cobalt Copper Iron Lead 0.00011 0.11 0.10 109.9 9.5 20 Magnesium Manganese Molybdenum Nickel Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Antimony	anr				
Beryllium anr Boron  Cadmium anr  Calcium  Chromium  Cobalt  Copper  Iron  Lead 0.00011 0.11 0.10 109.9 9.5 20  Magnesium  Manganese  Molybdenum  Nickel  Potassium  Selenium anr  Silver anr  Sodium  Strontium  Thallium anr  Tin  Titanium  Vanadium	Arsenic	anr				
Boron Cadmium anr Calcium Chromium Cobalt Copper Iron Lead 0.00011 0.11 0.10 109.9 9.5 20 Magnesium Manganese Molybdenum Nickel Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Barium					
Cadmium anr Calcium Chromium Cobalt Copper Iron Lead 0.00011 0.11 0.10 109.9 9.5 20 Magnesium Manganese Molybdenum Nickel Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Beryllium	anr				
Calcium Chromium Cobalt Copper Iron Lead 0.00011 0.11 0.10 109.9 9.5 20  Magnesium Manganese Molybdenum Nickel Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Boron					
Chromium Cobalt Copper Iron Lead 0.00011 0.11 0.10 109.9 9.5 20  Magnesium Manganese Molybdenum Nickel Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Cadmium	anr				
Cobalt Copper Iron Lead 0.00011 0.11 0.10 109.9 9.5 20  Magnesium Manganese Molybdenum Nickel Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Calcium					
Copper Iron Lead 0.00011 0.11 0.10 109.9 9.5 20  Magnesium Manganese Molybdenum Nickel Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Chromium					
Lead 0.00011 0.11 0.10 109.9 9.5 20  Magnesium  Manganese  Molybdenum  Nickel  Potassium  Selenium anr  Silver anr  Sodium  Strontium  Thallium anr  Tin  Titanium  Vanadium	Cobalt					
Lead       0.00011 0.11 0.10 109.9       9.5       20         Magnesium       Manganese       Molybdenum         Nickel       Potassium       Selenium anr         Silver anr       sodium         Strontium       Thallium anr         Tin       Titanium         Vanadium       Vanadium	Copper					
Magnesium Manganese Molybdenum Nickel Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Iron					
Manganese Molybdenum Nickel Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Lead	0.00011 0.11	0.10	109.9	9.5	20
Molybdenum Nickel Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Magnesium					
Nickel  Potassium  Selenium anr  Silver anr  Sodium  Strontium  Thallium anr  Titanium  Vanadium	Manganese					
Potassium Selenium anr Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Molybdenum					
Selenium anr Silver anr Sodium Strontium Thallium anr Titanium Vanadium	Nickel					
Silver anr Sodium Strontium Thallium anr Tin Titanium Vanadium	Potassium					
Sodium Strontium Thallium anr Tin Titanium Vanadium	Selenium	anr				
Strontium Thallium anr Tin Titanium Vanadium	Silver	anr				
Thallium anr Tin Titanium Vanadium	Sodium					
Tin Titanium Vanadium	Strontium					
Titanium Vanadium	Thallium	anr				
Vanadium	Tin					
	Titanium					
Zinc	Vanadium					
	Zinc					

Associated samples MP93240: JC18609-1, JC18609-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

#### Login Number: JC18609

Account: PARS - PARS Environmental Services

Project: WWP Schools-Village School, 601 New Village Road, West Windsor, NJ

QC Batch ID: MP93240 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date: 04/20/16

Metal	BSP Result	Spikelot MPXDW7	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium				
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.093	0.10	93.0	85-115
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP93240: JC18609-1, JC18609-2

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested



# 

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT VILLAGE ELEMENTARY SCHOOL APRIL 2016

# APPENDIX B LABORATORY CERTIFICATION

# State of New Jersey Department of Environmental Protection Certifies That SGS Accutest Inc. – Wheat Ridge

Laboratory Certification ID # CO007

is hereby approved as a

Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2016



Mille M. Pott p get

Joseph F. Aiello Assistant Director

NJDEP is a NELAP Recognized Accreditation Body



# State of New Jersey Department of Environmental Protection Certifies That SGS Accutest Inc. - Dayton Laboratory Certification ID # 12129

is hereby approved as a

# Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2016

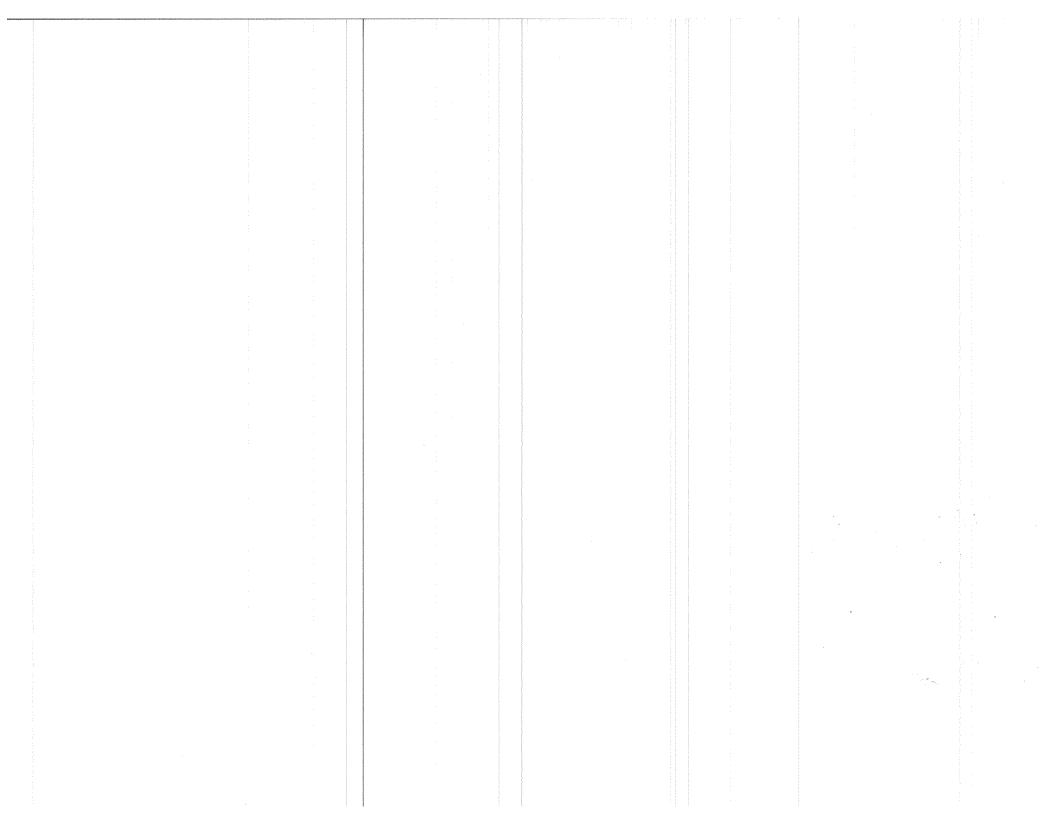


Muhil M. Pott po 24

Joseph F. Aiello Assistant Director



NJDEP is a NELAP Recognized Accreditation Body





# LEAD IN DRINKING WATER TESTING REPORT

WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT WICOFF ELEMENTARY SCHOOL 510 PLAINSBORO ROAD PLAINSBORO, NEW JERSEY 08536

#### PREPARED FOR

West Windsor-Plainsboro Regional School District 505 Village Road West PO Box 505 West Windsor, New Jersey 08550

#### PREPARED BY

PARS Environmental, Inc. 500 Horizon Drive, Suite 540 Robbinsville, New Jersey 08691

Tel: 609-890-7277 Fax: 609-890-9116

PARS Project No. 565-84

**April 2016** 



LABORATORY CERTIFICATION

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT WICOFF ELEMENTARY SCHOOL APRIL 2016

#### **PARS**

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**PARS** 

### **EXECUTIVE SUMMARY**

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Wicoff Elementary School (WES). PARS conducted the lead in drinking water testing on March 24, 2016. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the United States Environmental Protection Agency (USEPA) 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (USEPA 3Ts). PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

## **FINDINGS**

The USEPA National Primary Drinking Water Regulations requires that immediate action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 milligrams per liter (mg/l). Exceedance of the 0.015 mg/l action level was not identified in WES. A total of 10 water samples were collected and analyzed.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.



**PARS** 

### 1.0 INTRODUCTION

PARS Environmental, Inc. (PARS) was retained by the West Windsor-Plainsboro Regional School District (WWP) to conduct lead in drinking water testing at the Wicoff Elementary School (WES). The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the *USEPA 3Ts*. PARS collected the water samples from drinking water outlets in the building where water is normally drawn for drinking or food preparation for children, classroom combination sinks and drinking fountains, home economics/life science classrooms, nurse's office sink, classroom sinks in special education classrooms, faculty lounge sinks, and kitchen sinks. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

Sampling methodology is described in Section 2.0, the Lead in Drinking Water Findings are discussed in Section 3.0, and the Conclusions and Recommendations are presented in Section 4.0. A list of the sample locations and results are provided in **Table 1**. The Laboratory Analytical Report and Laboratory NELAC Certification are provided in **Appendix A** and **B**, respectively.

This report is intended for the sole use of WWP. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations, is at risk of said user.



**PARS** 

## 2.0 LEAD IN DRINKING WATER SAMPLING

PARS conducted lead in drinking water testing at the WES on March 24, 2016. The lead in drinking water sampling was conducted by Christa Casciolini and Melissa Konieczny of PARS.

PARS performed lead in drinking water testing at a total of eight (8) drinking water fountains (bubbler and cooler units) and two (2) faucets in the nurse's office and kitchen locations in the elementary school.

All samples were collected following the USEPA First Draw sampling protocol. The First Draw sample collection occurred in the morning prior to the facility opening and before any water was drawn in the building, including toilet flushing. The water was unused for six (6) to eight (8) hours prior to collection. Arrangements were made to sample the water outlets prior to the arrival of teachers and students.

The samples were placed in pre-preserved plastic bottles and submitted for laboratory analysis to SGS Accutest for two-week turnaround. SGS Accutest is a New Jersey Department of Environmental Protection (NJDEP) certified laboratory for lead in drinking water (NELAC #CO007). All samples were analyzed using USEPA Method 200.8 for the determination of trace elements in waters and wastes by inductively coupled plasma – mass spectrometry (ICP-MS). Chain-of-custody protocols were followed.



**PARS** 

## 3.0 LEAD IN DRINKING WATER FINDINGS

Based on the laboratory analytical results, lead concentrations exceeding 0.015 mg/l action level were not identified in the 10 water samples collected at WES.

Lead in drinking water tabulated results for the WES are provided in **Table 1**. The laboratory analytical report is included in **Appendix A.** The laboratory certification is included in **Appendix B**.

**PARS** 

# 4.0 CONCLUSIONS AND RECOMMENDATIONS

A total of eight (8) drinking water fountains and two (2) faucets in the nurse's office and kitchen locations were tested at the WES. The USEPA recommends that action be taken if samples from any drinking water outlet exhibit lead concentrations greater than (>) 0.015 mg/l. None of the 10 outlets sampled in the WES exceeded the 0.015 mg/l action level.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.

-000-

PARS appreciates the opportunity to assist West Windsor-Plainsboro Regional School District with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

PARS ENVIRONMENTAL, INC.

Chute Cala

Christa M. Casciolini

**Project Geologist** 

Margaret Halasnik

Principal Industrial Hygienist

Pargaret Halasii



# 

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT WICOFF ELEMENTARY SCHOOL APRIL 2016

# TABLE 1 DRINKING WATER RESULTS TABLE

#### TABLE 1

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT WICOFF ELEMENTARY SCHOOL

APRIL 2016

All samples are primary (first draw) samples.

All faucets sampled are cold water, unless noted.

EPA Action limit = 0.015 milligrams per liter (mg/l)

School:	Wicoff Elementar	y School									
Sampling Date:	3/24/2016										
Exceeds EPA Action Limit ( > 0.015 mg/l)											
Hit = result > 0.00050 detection limit											
Accutest Mountain States										A	pr 05, 2016 15:19 pm
Job Number:	D81108										
Account:	PARS Environme	ental Services West Windsor-Plainsb	one NI								
Project Number:	WE Regional, V	vest venusor-Planiso	UIU, INJ								
										Legend:	Hit
Client Sample ID:		WE-01-KIT-KC-P	WE-01-H2-WC-P	WE-01-M0-NS-P	WE-01-11-DW-P	WE-01-03-DW-P	WE-01-CAF-WC-P	WE-O1-H2-WC-P	WE-01-33-DW-P	WE-02-20-DW-P	WE-02-22-DW-P
Lab Sample ID:		D81108-1	D81108-2	D81108-3	D81108-4	D81108-5	D81108-6	D81108-7	D81108-8	D81108-9	D81108-10
Date Sampled:		3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016	3/24/2016
Matrix:		Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis											
Lead	mg/l	0.00065	<0.00050	0.0011	0.0012	0.014	<0.00050	<0.00050	0.0016	0.0027	0.0034

Client Sample ID Format: School-Floor-Room-Outlet-Sample Type Floor: Outlet: Sample Type: 01 = First floor ### = Room number ### BF = Bathroom faucet P = Primary (first draw) sample 02 = Second floor ###-### = Sample between room number ### and room ## CF = Classroom faucet F = Flush sample H### = Hallway by room number ### DW= Drinking water bubbler BL = Boy's locker room EC = Home economics room, cold CAF = Cafeteria KC = Kitchen faucet, cold FR = Faculty room LC = Lounge faucet, cold GL = Girl's locker room NS = Nurse's office sink KIT = KitchenWC = Water cooler (chiller unit) MGYM = Main gym TF or TS = Teacher's faucet or Teacher's sink MO = Main office NUR = Nurse's office SGYM = Small gym TGL = Team girl's locker room TL = Teacher's lounge TP = Teacher's prep room PLR = Pool Locker room

Note:

Client Sample ID Lab Sample ID Description

WE-01-H2-WC-P D81108-2 Hallway 1: water cooler sampled outside of gym.

 $WE-01-H2-WC-P \\ D81108-7 \\ Hallway 2: water cooler sampled across the hallway from room 1.$ 



# 

# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT WICOFF ELEMENTARY SCHOOL APRIL 2016

# APPENDIX A LABORATORY ANALYTICAL REPORT



# **ACCUTEST**Mountain State

04/05/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

# Technical Report for

#### **PARS** Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ

**WE** 

SGS Accutest Job Number: D81108

Sampling Date: 03/24/16



PARS Environmental, Inc. 500 Horizon Drive Suite 540 Robbinsville, NJ 08691 ccasciolini@ParsEnviro.com

ATTN: Crista Casciolini

Total number of pages in report: 35

TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman Laboratory Director

Seed walk

Client Service contact: Cristina Araujo 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY

CO (CO00049), EPA 515.4 Provisional

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.

Test results relate only to samples analyzed.

SGS

1 of 35

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# **Sample Summary**

Job No:

D81108

PARS Environmental Services

WWP Regional, West Windsor-Plainsboro, NJ Project No: WE

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
D81108-1	03/24/16	08:56 MK/C	03/25/16	DW	Drinking Water	WE-01-KIT-KC-P
D81108-2	03/24/16	09:01 MK/C	03/25/16	DW	Drinking Water	WE-01-H2-WC-P
D81108-3	03/24/16	09:04 MK/C	O3/25/16	DW	Drinking Water	WE-01-M0-NS-P
D81108-4	03/24/16	09:12 MK/C	03/25/16	DW	Drinking Water	WE-01-11-DW-P
D81108-5	03/24/16	09:16 MK/C	CO3/25/16	DW	Drinking Water	WE-01-03-DW-P
D81108-6	03/24/16	08:59 MK/C	03/25/16	DW	Drinking Water	WE-01-CAF-WC-P
D81108-7	03/24/16	09:10 MK/C	03/25/16	DW	Drinking Water	WE-O1-H2-WC-P
D81108-8	03/24/16	09:13 MK/C	03/25/16	DW	Drinking Water	WE-01-33-DW-P
D81108-9	03/24/16	09:22 MK/C	03/25/16	DW	Drinking Water	WE-02-20-DW-P
D81108-10	03/24/16	09:22 MK/C	03/25/16	DW	Drinking Water	WE-02-22-DW-P

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: PARS Environmental Services Job No D81108

Site: WWP Regional, West Windsor-Plainsboro, NJ Report Date 4/5/2016 2:29:04 PM

On 03/25/2016, 10 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.4 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D81108 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

#### Metals By Method EPA 200.8

Matrix DW Batch ID: MP18360

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D81108-1MS, D81108-1MSD were used as the QC samples for the metals analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

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**Summary of Hits Job Number:** D81108

**Account:** PARS Environmental Services

Project: WWP Regional, West Windsor-Plainsboro, NJ

**Collected:** 03/24/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D81108-1	WE-01-KIT-KC-F	•				
Lead		0.00065	0.00050		mg/l	EPA 200.8
D81108-2	WE-01-H2-WC-P					
No hits reported	in this sample.					
D81108-3	WE-01-M0-NS-P					
Lead		0.0011	0.00050		mg/l	EPA 200.8
D81108-4	WE-01-11-DW-P					
Lead		0.0012	0.00050		mg/l	EPA 200.8
D81108-5	WE-01-03-DW-P					
Lead		0.014	0.00050		mg/l	EPA 200.8
D81108-6	WE-01-CAF-WC-	P				
No hits reported	in this sample.					
D81108-7	WE-O1-H2-WC-P	•				
No hits reported	in this sample.					
D81108-8	WE-01-33-DW-P					
Lead		0.0016	0.00050		mg/l	EPA 200.8
D81108-9	WE-02-20-DW-P					
Lead		0.0027	0.00050		mg/l	EPA 200.8
D81108-10	WE-02-22-DW-P					
Lead		0.0034	0.00050		mg/l	EPA 200.8



# Section 4

Sample Results	
Report of Analysis	
1	

Client Sample ID: WE-01-KIT-KC-P

Lab Sample ID:D81108-1Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.00065	0.015	0.00050	0 mg/1	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

**Report of Analysis** 

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18360

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: WE-01-H2-WC-P

Lab Sample ID: D81108-2 **Date Sampled:** 03/24/16 Matrix: **Date Received:** 03/25/16 DW - Drinking Water Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177 (2) Prep QC Batch: MP18360

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)



**ACCUTEST** 

# **Report of Analysis**

Client Sample ID: WE-01-M0-NS-P

Lab Sample ID:D81108-3Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0011	0.015	0.0005	0 mg/1	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18360

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: WE-01-11-DW-P

Lab Sample ID:D81108-4Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0012	0.015	0.00050	0 mg/1	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18360

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: WE-01-03-DW-P

Lab Sample ID: D81108-5 **Date Sampled:** 03/24/16 Matrix: DW - Drinking Water **Date Received:** 03/25/16 Percent Solids: n/a

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	0.014	0.015	0.00050 mg/l		1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177 (2) Prep QC Batch: MP18360

RL = Reporting Limit





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# **Report of Analysis**

Client Sample ID: WE-01-CAF-WC-P

Lab Sample ID:D81108-6Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.00050	0.015	0.0005	0 mg/1	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18360

RL = Reporting Limit

# **Report of Analysis**

Client Sample ID: WE-O1-H2-WC-P

Lab Sample ID:D81108-7Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	<b>Prep Method</b>
Lead	< 0.00050	0.015	0.0005	50 mg/l	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18360

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: WE-01-33-DW-P

Lab Sample ID:D81108-8Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0016	0.015	0.0005	0 mg/1	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18360

RL = Reporting Limit



# **Report of Analysis**

Client Sample ID: WE-02-20-DW-P

Lab Sample ID:D81108-9Date Sampled:03/24/16Matrix:DW - Drinking WaterDate Received:03/25/16Percent Solids:n/a

Project: WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0027	0.015	0.00050	0 mg/1	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18360

RL = Reporting Limit

Percent Solids: n/a

# **Report of Analysis**

 Client Sample ID:
 WE-02-22-DW-P

 Lab Sample ID:
 D81108-10

 Matrix:
 DW - Drinking Water

 Date Sampled:
 03/24/16

 Date Received:
 03/25/16

**Project:** WWP Regional, West Windsor-Plainsboro, NJ

### **Total Metals Analysis**

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.0034	0.015	0.00050	0 mg/1	1	03/31/16	04/02/16 RM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA7177(2) Prep QC Batch: MP18360

RL = Reporting Limit





# Section 5

Custody	Documents and Other Forms
Includes	the following where applicable:

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WF-02-20-DW-P			9:22				$\Box$	1		$\Box$	$\sqcap$				1			_	1	_	09
WE-02-22-0W-P			9:22	MK		i		ī				L									(0
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**D81108: Chain of Custody** 

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# **SGS Accutest Sample Receipt Summary**

Comments

Job Number: D81108 Clie	nt: PARS	Project: WWP REGIONAL	.WE
<b>Date / Time Received:</b> 3/25/2016 11:30:00 AM	Delivery Method:	Airbill #'s: fx	
Cooler Temps (Initial/Adjusted): #1: (2.4/2.4);			
1. Gustouy Seals Fleselli.	1. S ates/Time OK	nple Integrity - Documentation  Sample labels present on bottles: Container labeling complete: Sample container label / COC agree:  mple Integrity - Condition  Sample recvd within HT: All containers accounted for: Condition of sample:	Y or N  ✓ □  ✓ □  ✓ □  ✓ □  Y or N  ✓ □  ✓ Intact
1. Trip Blank present / cooler: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☑ 1.7 2.6 3.5 4.0	mple Integrity - Instructions  Analysis requested is clear:  Bottles received for unspecified tests  Sufficient volume recvd for analysis:  Compositing instructions clear:  Filtering instructions clear:	Y or N N/A  V

**D81108:** Chain of Custody

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Section 6

# Metals Analysis

# QC Data Summaries

# Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- · Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

# SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81108 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Run ID: MA7177

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8

Analyst: RM Parameters: Pb

Time		Dilution PS Factor Recov	Comments
02:41	MA7177-STD1	1	STDBLK
02:44	MA7177-STD2	1	STD1
02:47	MA7177-STD3	1	STD2
02:50	MA7177-STD4	1	STD3
02:53	MA7177-CRI1	1	
02:56	MA7177-ICV1	1	
03:00	MA7177-ICB1	1	
03:03	MA7177-CCV1	1	
03:06	MA7177-CCB1	1	
03:09	MP18359-MB1	1	
03:12	MP18359-B1	1	
03:15	D81107-1	1	(sample used for QC only; not part of login D81108)
03:18	MP18359-S1	1	
03:21	MP18359-S2	1	
03:24	ZZZZZZ	1	
03:27	ZZZZZZ	1	
03:30	ZZZZZZ	1	
03:33	ZZZZZZ	1	
03:37	MA7177-CCV2	1	
03:40	MA7177-CCB2	1	
03:43	ZZZZZZ	1	
03:46	ZZZZZZ	1	
03:49	ZZZZZZ	1	
03:52	ZZZZZZ	1	
03:55	ZZZZZZ	1	
03:58	MP18360-MB1	1	
04:01	MP18360-B1	1	
04:04	D81108-1	1	
04:07	MP18360-S1	1	
04:10	MP18360-S2	1	
04:13	MA7177-CCV3	1	
04:16	MA7177-CCB3	1	
04:20	D81108-2	1	

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# SGS Accutest Instrument Runlog Inorganics Analyses

# Login Number: D81108 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Analyst: RM Date Analyzed: 04/02/16 Methods: EPA 200.8 Run ID: MA7177

Parameters: Pb

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	04:23	D81108-3	1		
	04:26	D81108-4	1		
	04:29	D81108-5	1		
	04:32	D81108-6	1		
	04:35	D81108-7	1		
	04:38	D81108-8	1		
	04:41	D81108-9	1		
>	Last r	D81108-10 eportable sample MP18361-MB1		job D811	108
	04:50	MA7177-CCV4	1		
>	Last r	MA7177-CCB4 eportable CCB for MP18361-B1		108	
		D81109-1			(sample used for QC only; not part of login D81108)
		MP18361-S1			(Sample about 101 go only, not part of login bolloo,
		MP18361-S2			
		ZZZZZZ			
	05:12	ZZZZZZ	1		
	05:15	ZZZZZZ	1		
	05:18	ZZZZZZ	1		
	05:21	ZZZZZZ	1		
	05:24	ZZZZZZ	1		
	05:27	MA7177-CCV5	1		
	05:30	MA7177-CCB5	1		
	05:33	ZZZZZZ	1		
	05:36	ZZZZZZ	1		
	05:39	ZZZZZZ	1		
	05:42	MP18362-MB1	1		
	05:45	MP18362-B1	1		
	05:48	D81109-11	1		(sample used for QC only; not part of login D81108)
	05:51	MP18362-S1	1		
	05:54	MP18362-S2	1		
	05:58	ZZZZZZ	1		
	06:01	ZZZZZZ	1		

#### SGS Accutest Instrument Runlog Inorganics Analyses

Login Number: D81108 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Date Analyzed: 04/02/16 Methods: EPA 200.8 File ID: PA033116DW.REP Run ID: MA7177

Analyst: RM Parameters: Pb

Time	Sample Description	Dilution PS Factor Recov Comments
06:04	MA7177-CCV6	1
06:07	MA7177-CCB6	1
06:10	ZZZZZZ	1
06:13	ZZZZZZ	1
06:16	MA7177-CCV7	1
06:19	MA7177-CCB7	1

Refer to raw data for calibration curve and standards.

#### INTERNAL STANDARD SUMMARY

# Login Number: D81108 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8 Run ID: MA7177

Analyst: RM Parameters: Pb

Pala	meters. PD		
Time	Sample Description	Istd#1	Istd#2
	MA7177-STD1		
	MA7177-STD2		
	MA7177-STD3		
	MA7177-STD4		
	MA7177-CRI1		
	MA7177-ICV1		
	MA7177-ICV1		533020
	MA7177-CCV1		
	MA7177-CCB1		
	MP18359-MB1		502540
	MP18359-B1		
	D81107-1		
03:18	MP18359-S1	477860	504986
03:21	MP18359-S2	471183	488929
03:24	ZZZZZZ	464331	482286
03:27	ZZZZZZ	470919	490784
03:30	ZZZZZZ	468416	490835
03:33	ZZZZZZ	467715	487475
03:37	MA7177-CCV2	506433	516889
03:40	MA7177-CCB2	492186	519083
03:43	ZZZZZZ	450264	473504
03:46	ZZZZZZ	452939	472511
03:49	ZZZZZZ	469553	484358
03:52	ZZZZZZ	459441	482503
03:55	ZZZZZZ	468164	488646
03:58	MP18360-MB1	461252	502144
	MP18360-B1	458394	503154
	D81108-1		
	MP18360-S1		493681
	MP18360-S2	463824	488050
	MA7177-CCV3		525286
	MA7177-CCB3		529387
04:20	D81108-2	458037	471887

#### INTERNAL STANDARD SUMMARY

# Login Number: D81108 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Analyst: RM

Date Analyzed: 04/02/16 Methods: EPA 200.8 Run ID: MA7177

Analyst: RM Parameters: Pb			R	Run ID: MA7177
	Sample Description	Istd#1	Istd#2	
04:23	D81108-3	454546	477689	
04:26	D81108-4	452703	472285	
04:29	D81108-5	447063	469022	
04:32	D81108-6	452751	475847	
04:35	D81108-7	460814	482276	
04:38	D81108-8	454298	469128	
04:41	D81108-9	461396	484284	
04:44	D81108-10	459777	485582	
04:47	MP18361-MB1	463599	501354	
04:50	MA7177-CCV4	511828	524730	
04:53	MA7177-CCB4	496090	521130	
04:56	MP18361-B1	458339	495602	
04:59	D81109-1	453649	469398	
05:02	MP18361-S1	446896	475031	
05:06	MP18361-S2	461354	476404	
05:09	ZZZZZZ	452916	466493	
05:12	ZZZZZZ	450703	475866	
05:15	ZZZZZZ	450757	468906	
05:18	ZZZZZZ	445498	464868	
05:21	ZZZZZZ	447973	469994	
05:24	ZZZZZZ	451482	470346	
05:27	MA7177-CCV5	494930	512120	
05:30	MA7177-CCB5	490005	517626	
05:33	ZZZZZZ	457070	469928	
05:36	ZZZZZZ	450805	471734	
05:39	ZZZZZZ	448458	473838	
05:42	MP18362-MB1	448436	486635	
05:45	MP18362-B1	459615	492449	
05:48	D81109-11	447697	465020	
05:51	MP18362-S1	458302	480761	
05:54	MP18362-S2	454149	477392	
05:58	ZZZZZZ	440391	457615	
06:01	ZZZZZZ	445916	459458	

#### INTERNAL STANDARD SUMMARY

Login Number: D81108 Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

Date Analyzed: 04/02/16 Methods: EPA 200.8 File ID: PA033116DW.REP

Analyst: RM Parameters: Pb Run ID: MA7177

Time	Sample Description	Istd#1	Istd#2
06:04	MA7177-CCV6	491183	499392
06:07	MA7177-CCB6	488514	515345
06:10	ZZZZZZ	441976	456510
06:13	ZZZZZZ	446766	461779
06:16	MA7177-CCV7	484927	499976
06:19	MA7177-CCB7	484703	505388
R = Reference for ISTD limits			L = Outside limits

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

<u>Istd#</u>	Parameter	<u>Limits</u>	
Istd#1	Yttrium	60-125	용
Istd#2	Bismuth	60-125	용

### BLANK RESULTS SUMMARY

Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81108

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7177 Units: ug/1

Time: Sample ID: Metal	RL	IDL	03:00 ICB1 raw	final	03:06 CCB1 raw	final	03:40 CCB2 raw	final	04:16 CCB3 raw	final
Copper	2.0	.06								
Lead	0.50	.0079	0.0030	<0.50	-0.0010	<0.50	0.0030	<0.50	0.0040	<0.50

### BLANK RESULTS SUMMARY

Part 1 - Initial and Continuing Calibration Blanks

Login Number: D81108

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8 QC Limits: result < RL Run ID: MA7177 Units: ug/l

Time: Sample ID: Metal	RL	IDL	04:53 CCB4 raw	final
Copper	2.0	.06		
Lead	0.50	.0079	0.0010	<0.50

### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81108

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP QC Limits: 90 to 110 % Recovery Date Analyzed: 04/02/16 Methods: EPA 200.8 Run ID: MA7177

Units: ug/l

Time: Sample ID: Metal	ICV True	02:56 ICV1 Results	% Rec	CCV True	03:03 CCV1 Results	% Rec	CCV True	03:37 CCV2 Results	% Rec
Copper									
Lead	100	101	101.0	50	49.3	98.6	50	50.3	100.6

### CALIBRATION CHECK STANDARDS SUMMARY Initial and Continuing Calibration Checks

Login Number: D81108

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8 QC Limits: 90 to 110 % Recovery Run ID: MA7177 Units: ug/l

Time: Sample ID: Metal	CCV True	04:13 CCV3 Results	% Rec	CCV True	04:50 CCV4 Results	% Rec
Copper						
Lead	50	48.6	97.2	50	49.1	98.2

### LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: D81108
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

File ID: PA033116DW.REP Date Analyzed: 04/02/16 Methods: EPA 200.8 QC Limits: 50 to 150 % Recovery Run ID: MA7177 Units: ug/1

Time: Sample ID: Metal		CRIA True	02:53 CRI1 Results	% Rec
Copper	2.0	2.0		
Lead	0.50	0.50	0.50	100.0

### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D81108

Account: PARS - PARS Environmental Services Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18360 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

03/31/16

Metal	RL	IDL	MDL	MB raw	final
Copper	0.0020	.00006	.00014		
Lead	0.00050	.0000079	.00001	0.000021	<0.00050

Associated samples MP18360: D81108-1, D81108-2, D81108-3, D81108-4, D81108-5, D81108-6, D81108-7, D81108-8, D81108-9, D81108-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

## 6.2.2

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81108
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18360 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

03/31/16

Metal	D81108-1 Original MS	Spikelot ICPALL2 % Rec
opper		
Lead	0.00065 0.16	0.20 79.7

Associated samples MP18360: D81108-1, D81108-2, D81108-3, D81108-4, D81108-5, D81108-6, D81108-7, D81108-8, D81108-9, D81108-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

# 6.2.2

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D81108
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18360 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/1

Prep Date:

03/31/16

Metal	D81108-1 Original MSD	Spikelot ICPALL2 % Rec	MSD QC RPD Li
Copper			
Lead	0.00065 0.17	0.20 84.7	6.1 20

Associated samples MP18360: D81108-1, D81108-2, D81108-3, D81108-4, D81108-5, D81108-6, D81108-7, D81108-8, D81108-9, D81108-10

Results < IDL are shown as zero for calculation purposes

- (\*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

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ACCUTEST
D81108

### 6.2.3

### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D81108
Account: PARS - PARS Environmental Services
Project: WWP Regional, West Windsor-Plainsboro, NJ

QC Batch ID: MP18360 Methods: EPA 200.8 Matrix Type: DRINKING WATER Units: mg/l

Prep Date:

03/31/16

Associated samples MP18360: D81108-1, D81108-2, D81108-3, D81108-4, D81108-5, D81108-6, D81108-7, D81108-8, D81108-9, D81108-10

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

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ACCUTEST
D81108





# LEAD IN DRINKING WATER TESTING REPORT WEST WINDSOR-PLAINSBORO REGIONAL SCHOOL DISTRICT WICOFF ELEMENTARY SCHOOL APRIL 2016

## APPENDIX B LABORATORY CERTIFICATION

# State of New Jersey Department of Environmental Protection Certifies That

SGS Accutest Inc. — Wheat Ridge Laboratory Certification ID # CO007

is hereby approved as a

Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq. Regulations Governing the Certification of

having been found compliant with the 2009 TNI Standard approved by the The NELAC Institute

Expires June 30, 2016

TANIA PRECOGNITATION RESTAURANT

Mullim M. Potte A JH Joseph F. Aiello Assistant Director



NJDEP is a NELAP Recognized Accreditation Body

# New Jersey Department of Environmental Protection National Environmental Laboratory Accreditation Program

# National Environmental Laboratory Accreditation Frogram ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS Effective as of 01/14/2016 until 06/30/2016

4036 YOUNGFIELD ST Laboratory Name: SGS ACCUTEST INC. - WHEAT RIDGE Laboratory Number: CO007 Activity ID: NLC150001



Category: DW07 -- Metals - ICP, ICP/MS and DCP Eligible to WHEAT RIDGE, CO 80033

	Report	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	UT	DW07_00070	DW	ICP/MS	[EPA 200.8]	Arsenic
Certified	Yes	F F	DW07.00080	DW	ICP	[EPA 200.7]	Barum
Certified	Yes	E P	DW07_00110	DW	ICP/MS	[EPA 200.8]	Barton
Certified	Yes	TU	DW07_00150	DW	ICP/MS	[EPA 200.8]	Codmin
Certified	Yes	TU	DW07_00190	DW	ICP/MS	[EPA 200.8]	Calcium
Certified	Yes	P	DW07.00200	DW	ICP	[EPA 200.7]	Calcium
Certified	Yes	U	DW07.00240	DW	ICP	[EPA 200.7]	Chroman
Certified	Yes	T	DW07.00270	DW	ICP/MS	[EPA 200.8]	Citotulan
Certified	Yes	IN	DW07.00300	DW	ICP	[EPA 200.7]	copper
Certified	Yes	U	DW07.00330	DW	ICP/MS	[EPA 200.8]	copper
Certified	Yes	III	DW07.00340	DW	ICP	[EPA 200.7]	I God
Certified	Yes	Ш	DW07.00380	DW	ICPIMS	[EPA 200.6]	Magnesium
Certified	Yes	III	DW07_00400	DW	ICP	EEA 200 7	Manoanese
Certified	Yes	U	DW07_00430	DW	IQ.	[EFA 200.7]	Managere
Certified	Yes	UT	DW07.00460	DW	ICP/MS	[EFA 200.6]	Molehdamm
Certified	Yes	TU	DW07.00490	DW	ICP/MS	EFA 200.8J	Nicted
Certified	Yes	II.	DW07_00500	DW	CP	[EFA 200.7]	Nickel
Certified	Yes	UT	DW07.00530	DW	ICP/MS	[EFA 200.8]	Potaccium
Certified	Yes	T	DW07.00540	DW	P	[LFA 200.6]	Solonium
Certified	Yes	T	DW07_00560	DW	ICP/MS	[EPA 200.8]	Cilvar
Certified	Yes	TU	DW07_00600	DW	ICP	[EPA 200.7]	Silver
Certified	Yes	TU	DW07,00630	DW	ICP/MS	[EPA 200.8]	Sodium
Certified	Yes	Ę	DW07.00640	DW	ICP	[EPA 200.7]	Thelliam
Certified	Yes	H	DW07,00670	DW	ICP/MS	[EFA 200.8]	Transium
Certified	Yes	F	DW07.00740	DW	ICP/MS	[EFA 200 8]	Vanadium
Certified	Yes	TP	DW07,00760	DW	. ICP/MS	[EPA 200.5]	7 inc
Certified	Yes	UJ.	DW07_00770	DW	IQ.	[LEBY 200 0]	Zinc
Certified	Yes	TI	DW07_00800	DW	ICP/NIS	DEN ZOUGO	

KEY. AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials