



**REMEDIAL ACTION REPORT**  
*(Volume 4: Appendix G -  
APC-6, APC-10, APC-12)*

**FOR**

**PEERLESS PHOTO PRODUCTS SITE  
ROUTE 25A AND RANDALL RD.  
SUFFOLK COUNTY  
SHOREHAM, NEW YORK  
(SITE NO.: 1-52-031)**

**ATC PROJECT NO. 68.28817.0001**

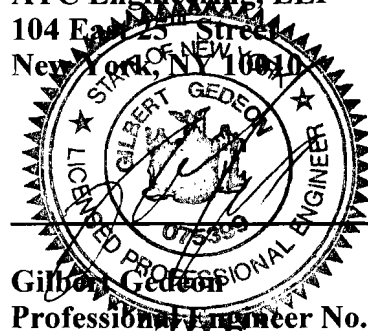
**JUNE 20, 2007**

**Prepared for:**

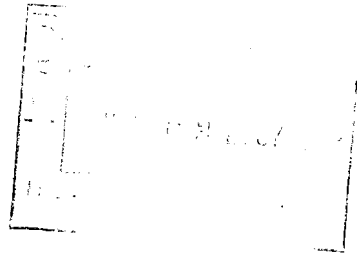
**AGFA Corporation  
100 Challenger Road  
Ridgefield Park, NJ 07660-2199**

**Prepared by:**

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104 East 25 Street  
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**Gilbert Geddes  
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**DATA USABILITY REPORT**

**ACCUTEST CASE NO. J11121**

**DATA USABILITY SUMMARY REPORT**

**FOR**

**PEERLESS PHOTO PRODUCTS  
SHORHAM, NEW YORK  
SEPTEMBER 2005**

**REPORTED MARCH 2006**

**ATC PROJECT NO. 68.28817.0001**

**PREPARED BY**

*Mark Traxler*

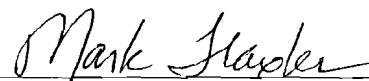
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**MARK TRAXLER  
SENIOR QUALITY ASSURANCE SCIENTIST**



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The following Data Usability Summary Report (DUSR) was conducted by the ATC Associates Inc. Environmental Chemistry and Quality Assurance Department. This report has concluded that the following analytical data, with the use of the stated qualifications, generated in the sampling event of September 28, 2005 for the Peerless Photo Products Site are acceptable for its intended use in the subject investigation.



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Mark Traxler  
Senior Quality Assurance Scientist

**DATA USABILITY SUMMARY  
METALS  
PEERLESS PHOTO PRODUCTS SITE  
SEPTEMBER 2005**

**1.0 INTRODUCTION**

This Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. This DUSR has been developed from a full NYSDEC Analytical Services Protocol (ASP) Category B deliverables package.

This DUSR addresses the two (2) metals (cadmium and silver) results from the September 28, 2005 soil sampling event at the Peerless Photo Products site in Shorham, New York. Case J11121 included a total of 23 soil samples, including one (1) set of field duplicate samples, plus one (1) Matrix Spike/Matrix Duplicate (MS/MD) pair for limited metals (cadmium and silver) analysis. Case J11121 also included one (1) aqueous field blank sample for limited metals (cadmium and silver) analysis.

The findings offered in this DUSR are based upon a general review of sample data, holding times, initial and continuing calibration verification results, contract required detection limit (CRDL) standard results, blank contamination results, inductively coupled plasma (ICP) interference check sample results, spike sample results, laboratory and field duplicate results, and laboratory control sample results. All samples in this report were analyzed by Accutest Laboratories, Dayton, New Jersey following United States Environmental Protection Agency (EPA) *Test Methods for Evaluating Solid Waste*, Update III, 1996 (SW-846) Methods 3050B (and 3010A for the aqueous field blank sample) and 6010B. The quality assurance review of the data described was prepared according to EPA's *National Functional Guidelines for Inorganic Data Review, Final*, (EPA 540-R-04-004) dated October 2004, where applicable to SW-846 Methods. Method protocol criteria were also considered as prescribed by SW-846.

The analytical data deliverables for Case J11121 consist of NYSDCE ASP Category B reporting forms and raw data for each analysis, which includes instrument printouts, notebook pages, and chain-of-custody (COC) documents.

The data summary tables list the two (2) metals that were analyzed. Appendix A provides the sample results as reported by the laboratory, along with a copy of the associated COC documentation. The support documentation in Appendix B summarizes the specific issues raised in this review. Analytical problems that were encountered were outlined in the Findings/Qualifiers section.

The following components of the data package were reviewed for completeness:

- Sample chain-of-custody form;
- Case narrative;
- Summary forms and supporting documents;
- Calibration data;
- Instrument and method performance data;
- Data report forms, preparation logs and run logs; and
- Raw analytical data.

The following items of the data package were reviewed for compliance:

- The data package is complete, as defined above;
- The data has been produced and reported in a manner consistent with the requirements of the Quality Assurance Project Plan (QAPP);
- The QAPP-defined quality assurance (QA) and quality control (QC) criteria have been met;
- Instrument calibration requirements have been met for the time frame during which the analyses were completed;
- Initial and Continuing calibration data are presented and documented;
- Data reporting forms are complete; and
- Problems encountered during the analytical process have been reported in the case narrative.

## **2.0 LABORATORY DATA PACKAGE**

The data package that was received from Accutest was paginated, complete and overall was of good quality. Comments on specific QA/QC issues and other requirements are discussed in detail in this report.

The samples were collected, properly preserved, shipped under a chain of custody record, and received at Accutest on the next day. All samples were received intact and in good condition at Accutest.

The soil samples were collected and analyzed for total cadmium and silver following SW-846 Methods 3050B for digestion and 6010B for analysis. The aqueous cadmium and silver was analyzed following SW-846 Method 3010A for digestion and 6010B for analysis.

### **3.0 FINDINGS/QUALIFIERS**

The following metals analysis elements were reviewed for compliance:

- Custody documentation
- Holding times
- Initial and continuing calibrations
- Contract Required Detection Limit (CRDL) check sample
- Laboratory preparation blanks and field blanks
- Inductively coupled plasma (ICP) interference check sample
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample recoveries
- ICP serial dilution
- Sample result verification and identification
- Quantitation limits

It is recommended that Case J11121 metals results be used with the following qualifiers:

1. The reporting limit (RL) was elevated 10X for the cadmium results for J11121-2, J11121-6, J11121-7, J11121-25 and J11121-26 due to elevated silver concentrations.
2. The ICP serial dilution exceeded the control limit of 10% difference (100%) for silver on a batch QC sample. The ICP serial dilution exceeded the control limit of 10% difference (100%, 100%) for cadmium and silver on another batch QC sample. However, since the original values of cadmium and silver were less than 50 times the Instrument Detection Limit (IDL), the ICP serial dilution for cadmium and silver were acceptable. No qualification of data was deemed necessary due to the ICP serial dilution results.

### **4.0 SUMMARY**

The metals results are acceptable as qualified. Holding times, initial and continuing calibration verification results, CRDL check sample results, continuing calibration blank results, laboratory preparation blank results, blank sample results, ICP interference check sample results, matrix spike recoveries, laboratory duplicates, field duplicates, laboratory control sample results, and ICP serial dilution results were within acceptance limits. Sample results were properly verified and identified, along with the appropriate quantitation limits.

This review has identified no areas of concern. The data has been qualified accordingly on the data summary table. For specifics relating to this review, see the attached documentation in Appendix B.



## QUALIFIER CODES - METALS

- U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ - The result is an estimated quantity, but the result may be biased high.
- J- - The result is an estimated quantity, but the result may be biased low.
- UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise
- R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be in the sample.

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 9/28/2005

Soil (mg/kg)

Laboratory Accutest - Dayton, NJ  
 Case/Order # J11121  
 Fraction/Method Metals / 3050B / 6010B

Sample Location or Description	APC12SB7SW2-N	APC12SB7SW4-S	APC12SB7SW1-W	APC12SB7-B	APC12SB7SW3-W	APC10TTSW1-N	APC10TTSW2-E	APC10TTSW3-S	APC10TTSW4-W	DUP092805	
Sample Number	J11121-1	J11121-2	J11121-3	J11121-4	J11121-5	J11121-6	J11121-7	J11121-8	J11121-9	J11121-10	
Sampling Date	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	
Preparation Date	9/30/2005	9/30/2005	9/30/2005	9/30/2005	9/30/2005	9/30/2005	9/30/2005	9/30/2005	9/30/2005	9/30/2005	
Analysis Date	10/1/2005	10/1/2005	10/1/2005	10/1/2005	10/1/2005	10/1/2005	10/1/2005	10/1/2005	9/30/2005	10/1/2005	
Percent Solids	96.8	95.8	96.5	96.0	93.0	94.8	92.5	91.2	88.0	98.3	
RL	P F	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	
0.40	Cadmium X	U 1	U 10	U 1	U 1	0.85 1	U 10	U 10	24.0 10	13.0 10	U 1
0.50	Silver X	7.8 1	208 10	14.9 1	52.8 1	63.6 1	867 10	382 10	629 10	735 10	U 1

Sample Location or Description	APC6WSSASW1-W	APC6WSSASW2-NW	APC6WSSASW3-NE	APC6WSSASW4-E	APC6WSSASW5-SE	APC6WSSASW6-W	APC6WSSAB7-E	APC6WSSAB8-W	APC12SB2SW1-N	APC12SB2SW2-E	
Sample Number	J11121-11	J11121-12	J11121-13	J11121-14	J11121-15	J11121-18	J11121-19	J11121-21	J11121-22	J11121-23	
Sampling Date	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	
Preparation Date	9/30/2005	9/30/2005	9/30/2005	9/30/2005	9/30/2005	9/30/2005	9/30/2005	9/30/2005	9/30/2005	9/30/2005	
Analysis Date	10/1/2005	10/1/2005	10/1/2005	10/1/2005	10/1/2005	10/1/2005	10/1/2005	10/1/2005	10/1/2005	10/1/2005	
Percent Solids	97.7	96.9	96.4	96.2	95.0	92.8	92.2	97.9	94.9	93.5	
RL	P F	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	
0.40	Cadmium X	U 1	U 1	U 1	0.85 1	U 1	U 1	6.3 10	U 1	1 1	0.93 1
0.50	Silver X	U 1	U 1	U 1	U 1	U 1	U 1	186 10	U 1	367 10	342 10

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 9/28/2005

Soil (mg/kg)

Laboratory Accutest - Dayton, NJ  
 Case/Order # J11121  
 Fraction/Method Metals / 3050B / 6010B

Sample Location or Description	APC12SB2SW3-W	APC12SB2SW4-S	APC12SB2B																
Sample Number	J11121-24	J11121-25	J11121-26																
Sampling Date	9/28/2005	9/28/2005	9/28/2005																
Preparation Date	9/30/2005	9/30/2005	9/30/2005																
Analysis Date	10/1/2005	10/1/2005	10/1/2005																
Percent Solids	92.7	93.7	94.9																
RL	P	F	Q	DF	Q	DF	Q	DF											
0.40	Cadmium	X	7.4	10	U	10	U	10											
0.50	Silver	X	324	10	369	10	341	10											

Sample Location or Description																			
Sample Number																			
Sampling Date																			
Preparation Date																			
Analysis Date																			
Percent Solids																			
RL	P	F																	
0.40	Cadmium	X																	
0.50	Silver	X																	

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 9/28/2005

Aqueous (ug/L)

Laboratory Accutest - Dayton, NJ  
 Case/Order # J11121  
 Fraction/Method Metals / 3010A / 6010B

Sample Location or Description		FB092805																	
Sample Number		J11121-20																	
Sampling Date		9/28/2005																	
Preparation Date		9/30/2005																	
Analysis Date		9/30/2005																	
RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
4.0	Cadmium	X		U	1														
10.0	Silver	X		U	1														

Sample Location or Description																			
Sample Number																			
Sampling Date																			
Preparation Date																			
Analysis Date																			
RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
4.0	Cadmium	X																	
10.0	Silver	X																	

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

**APPENDIX A**



## SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: ATC Associates, Inc.

Job No J11121

Site: AGFA-Peerless, Shorham, NY

Report Date 10/5/2005 9:20:36 AM

23 Sample(s), 0 Trip Blank(s) and 1 Field Blank(s) were collected on 09/28/2005 and were received at Accutest on 09/29/2005 properly preserved, at 5 Deg. C and intact. These Samples received an Accutest job number of J11121. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP31750

- 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) J10612-1FMS, J10612-1FMDS, J10612-1FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Cadmium, Silver are outside control limits for sample MP31750-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO

Batch ID: MP31747

- 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) J11121-15MS, J11121-15MSD, J11121-15SDL were used as the QC samples for metals.
- RPD(s) for MSD for Silver are outside control limits for sample MP31747-S2. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- J11121-19 for Cadmium: Elevated detection limit due to dilution required for matrix interference.
- J11121-2 for Cadmium: Elevated detection limit due to dilution required for matrix interference.

Matrix: SO

Batch ID: MP31748

- 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) J11116-1SDL, J11116-1MS, J11116-1MSD were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Silver are outside control limits for sample MP31748-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- J11121-24 for Cadmium: Elevated detection limit due to dilution required for matrix interference.
- J11121-25 for Cadmium: Elevated detection limit due to dilution required for matrix interference.
- J11121-26 for Cadmium: Elevated detection limit due to dilution required for matrix interference.

### Wet Chemistry By Method ASTM 4643-00

Matrix: SO

Batch ID: GN83354

- There is no applicable data to evaluate for ASTM 4643-00.

## Wet Chemistry By Method EPA 160.3 M

Matrix: SO

Batch ID: GN83321

- There is no applicable data to evaluate for EPA 160.3 M.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J11121).

**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY**

Project Number: J11121

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Customer Sample Code	Laboratory Sample ID	Analytical Requirements						Metals	Other
		VOA	BNA	GC	GC	GC			
		GC/MS Method 8260B	GC/MS Method 8270C	GC Method 8081A	GC Method 8082	GC Method 8151			
APC12SB7SW2-N	J11121-1						X		
APC12SB7SW4-S	J11121-2						X		
APC12SB7SW1-W	J11121-3						X		
APC12SB7-B	J11121-4						X		
APC12SB7SW3-W	J11121-5						X		
APC10TTSW1-N	J11121-6						X		
APC10TTSW2-E	J11121-7						X		
APC10TTSW3-S	J11121-8						X		
APC10TTSW-4-W	J11121-9						X		
DUP092805	J11121-10						X		
APC6WSSASW1-W	J11121-11						X		
APC6WSSASW2-NW	J11121-12						X		
APC6WSSASW3-NE	J11121-13						X		
APC6WSSASW4-E	J11121-14						X		
APC6WSSASW5-SE	J11121-15						X		
APC6WSSASW6-W	J11121-18						X		
APC6WSSAB7-E	J11121-19						X		
FB092805	J11121-20						X		
APC6WSSAB8-W	J11121-21						X		
APC12SB2SW1-N	J11121-22						X		
APC12SB2SW2-E	J11121-23						X		
APC12SB2SW3-W	J11121-24						X		
APC12SB2SW4-S	J11121-25						X		
APC12SB2B	J11121-26						X		



## Report of Analysis

<b>Client Sample ID:</b> APC12SB7SW2-N <b>Lab Sample ID:</b> J11121-1 <b>Matrix:</b> SO - Soil  <b>Project:</b> AGFA-Peerless, Shorham, NY	<b>Date Sampled:</b> 09/28/05 <b>Date Received:</b> 09/29/05 <b>Percent Solids:</b> 96.8
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**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.50	0.50	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	7.8	0.99	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16410

(2) Prep QC Batch: MP31747

# Report of Analysis

<b>Client Sample ID:</b> APC12SB7SW2-N	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-1	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.8
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.8		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> APC12SB7SW4-S <b>Lab Sample ID:</b> J11121-2 <b>Matrix:</b> SO - Soil <b>Project:</b> AGFA-Peerless, Shorham, NY	<b>Date Sampled:</b> 09/28/05 <b>Date Received:</b> 09/29/05 <b>Percent Solids:</b> 95.8
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**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium <sup>a</sup>	<5.3	5.3	mg/kg	10	09/30/05	10/01/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	208	11	mg/kg	10	09/30/05	10/01/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16405

(2) Prep QC Batch: MP31747

(a) Elevated detection limit due to dilution required for matrix interference.

# Report of Analysis

<b>Client Sample ID:</b> APC12SB7SW4-S	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-2	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 95.8
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	95.8		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

**Client Sample ID:** APC12SB7SW1-W

**Lab Sample ID:** J11121-3

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 09/28/05

**Date Received:** 09/29/05

**Percent Solids:** 96.5

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.49	0.49	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	14.9	0.99	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16410

(2) Prep QC Batch: MP31747

# Report of Analysis

<b>Client Sample ID:</b> APC12SB7SW1-W	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-3	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.5
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.5		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> APC12SB7-B	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-4	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.0
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.53	0.53	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	52.8	1.1	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16410

(2) Prep QC Batch: MP31747

## Report of Analysis

<b>Client Sample ID:</b> APC12SB7-B <b>Lab Sample ID:</b> J11121-4 <b>Matrix:</b> SO - Soil <b>Project:</b> AGFA-Peerless, Shorham, NY	<b>Date Sampled:</b> 09/28/05 <b>Date Received:</b> 09/29/05 <b>Percent Solids:</b> 96.0
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**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96		%	1	10/01/05	SS	ASTM 4643-00



# Report of Analysis

<b>Client Sample ID:</b> APC12SB7SW3-W	
<b>Lab Sample ID:</b> J11121-5	<b>Date Sampled:</b> 09/28/05
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 09/29/05
	<b>Percent Solids:</b> 93.0
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	0.85	0.53	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	63.6	1.1	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16410

(2) Prep QC Batch: MP31747

# Report of Analysis

<b>Client Sample ID:</b> APC12SB7SW3-W	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-5	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.0
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	93.0		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> APC10TTSW1-N	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-6	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 94.8
<b>Project:</b> AGFA-Peerless, Shorham, NY	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<5.2	5.2	mg/kg	10	09/30/05	09/30/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	867	10	mg/kg	10	09/30/05	09/30/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16406

(2) Prep QC Batch: MP31747

# Report of Analysis

<b>Client Sample ID:</b> APC10TTSW1-N	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-6	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 94.8
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	94.8		%	1	09/30/05	TM	EPA 160.3 M

# Report of Analysis

**Client Sample ID:** APC10TTSW2-E

**Lab Sample ID:** J11121-7

**Matrix:** SO - Soil

**Date Sampled:** 09/28/05

**Date Received:** 09/29/05

**Percent Solids:** 92.5

**Project:** AGFA-Peerless, Shorham, NY

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	< 5.5	5.5	mg/kg	10	09/30/05	09/30/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	382	11	mg/kg	10	09/30/05	09/30/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16406

(2) Prep QC Batch: MP31747

# Report of Analysis

<b>Client Sample ID:</b> APC10TTSW2-E	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-7	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.5
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	92.5		%	1	09/30/05	TM	EPA 160.3 M

## Report of Analysis

<b>Client Sample ID:</b> APC10TTSW3-S	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-8	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.2
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	24.0	5.5	mg/kg	10	09/30/05	09/30/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	629	11	mg/kg	10	09/30/05	09/30/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16406

(2) Prep QC Batch: MP31747

# Report of Analysis

**Client Sample ID:** APC10TTSW3-S

**Lab Sample ID:** J11121-8

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 09/28/05

**Date Received:** 09/29/05

**Percent Solids:** 91.2

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	91.2		%	1	09/30/05	TM	EPA 160.3 M



## Report of Analysis

**Client Sample ID:** APC10TTSW-4-W

**Lab Sample ID:** J11121-9

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 09/28/05

**Date Received:** 09/29/05

**Percent Solids:** 88.0

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	13.0	5.8	mg/kg	10	09/30/05	09/30/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	735	12	mg/kg	10	09/30/05	09/30/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16406

(2) Prep QC Batch: MP31747

# Report of Analysis

<b>Client Sample ID:</b> APC10TTSW-4-W	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-9	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.0
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	88		%	1	09/30/05	TM	EPA 160.3 M

## Report of Analysis

<b>Client Sample ID:</b> DUP092805		<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-10		<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 98.3
<b>Project:</b> AGFA-Peerless, Shorham, NY		

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.51	0.51	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	<1.0	1.0	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16410

(2) Prep QC Batch: MP31747

# Report of Analysis

<b>Client Sample ID:</b> DUP092805	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-10	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 98.3
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	98.3		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> APC6WSSASW1-W	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-11	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 97.7
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.53	0.53	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	<1.1	1.1	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16410

(2) Prep QC Batch: MP31747

### Report of Analysis

**Client Sample ID:** APC6WSSASW1-W

**Lab Sample ID:** J11121-11

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 09/28/05

**Date Received:** 09/29/05

**Percent Solids:** 97.7

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.7		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> APC6WSSASW2-NW <b>Lab Sample ID:</b> J11121-12 <b>Matrix:</b> SO - Soil <b>Project:</b> AGFA-Peerless, Shorham, NY	<b>Date Sampled:</b> 09/28/05 <b>Date Received:</b> 09/29/05 <b>Percent Solids:</b> 96.9
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**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.50	0.50	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	<1.0	1.0	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16410

(2) Prep QC Batch: MP31747

# Report of Analysis

**Client Sample ID:** APC6WSSASW2-NW

**Lab Sample ID:** J11121-12

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 09/28/05

**Date Received:** 09/29/05

**Percent Solids:** 96.9

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.9		%	1	10/01/05	SS	ASTM 4643-00



## Report of Analysis

<b>Client Sample ID:</b> APC6WSSASW3-NE	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-13	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.4
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.49	0.49	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	<0.99	0.99	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16410

(2) Prep QC Batch: MP31747

# Report of Analysis

<b>Client Sample ID:</b> APC6WSSASW3-NE	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-13	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.4
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.4		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> APC6WSSASW4-E <b>Lab Sample ID:</b> J11121-14 <b>Matrix:</b> SO - Soil <b>Project:</b> AGFA-Peerless, Shorham, NY	<b>Date Sampled:</b> 09/28/05 <b>Date Received:</b> 09/29/05 <b>Percent Solids:</b> 96.2
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**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	0.85	0.53	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	< 1.1	1.1	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16410

(2) Prep QC Batch: MP31747

# Report of Analysis

<b>Client Sample ID:</b> APC6WSSASW4-E	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-14	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.2
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.2		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> APC6WSSASW5-SE	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-15	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 95.0
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.53	0.53	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	<1.1	1.1	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16410

(2) Prep QC Batch: MP31747

# Report of Analysis

**Client Sample ID:** APC6WSSASW5-SE

**Lab Sample ID:** J11121-15

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 09/28/05

**Date Received:** 09/29/05

**Percent Solids:** 95.0

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	95		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> APC6WSSASW6-W		<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-18		<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 92.8
<b>Project:</b> AGFA-Peerless, Shorham, NY		

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.54	0.54	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	<1.1	1.1	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16410

(2) Prep QC Batch: MP31747

# Report of Analysis

<b>Client Sample ID:</b> APC6WSSASW6-W	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-18	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.8
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	92.8		%	1	10/01/05	SS	ASTM 4643-00

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b> APC6WSSAB7-E	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-19	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.2
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium <sup>a</sup>	6.3	5.3	mg/kg	10	09/30/05	10/01/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	186	11	mg/kg	10	09/30/05	10/01/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16405

(2) Prep QC Batch: MP31747

(a) Elevated detection limit due to dilution required for matrix interference.

# Report of Analysis

<b>Client Sample ID:</b> APC6WSSAB7-E	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-19	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.2
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	92.2		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> FB092805	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-20	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> AQ - Field Blank Soil	<b>Percent Solids:</b> n/a
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	< 4.0	4.0	ug/l	1	09/30/05	09/30/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>
Silver	< 10	10	ug/l	1	09/30/05	09/30/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA16405  
 (2) Prep QC Batch: MP31750

## Report of Analysis

<b>Client Sample ID:</b> APC6WSSAB8-W	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-21	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 97.9
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.49	0.49	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	<0.98	0.98	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16410

(2) Prep QC Batch: MP31747

# Report of Analysis

<b>Client Sample ID:</b> APC6WSSAB8-W	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-21	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 97.9
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.9		%	1	10/01/05	SS	ASTM 4643-00

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> APC12SB2SW1-N <b>Lab Sample ID:</b> J11121-22 <b>Matrix:</b> SO - Soil <b>Project:</b> AGFA-Peerless, Shorham, NY	<b>Date Sampled:</b> 09/28/05 <b>Date Received:</b> 09/29/05 <b>Percent Solids:</b> 94.9
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**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.54	0.54	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>2</sup>	SW846 3050B <sup>3</sup>
Silver	367	11	mg/kg	10	09/30/05	10/01/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>3</sup>

- (1) Instrument QC Batch: MA16405
- (2) Instrument QC Batch: MA16410
- (3) Prep QC Batch: MP31747

# Report of Analysis

**Client Sample ID:** APC12SB2SW1-N

**Lab Sample ID:** J11121-22

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 09/28/05

**Date Received:** 09/29/05

**Percent Solids:** 94.9

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	94.9		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> APC12SB2SW2-E		<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-23		<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 93.5
<b>Project:</b> AGFA-Peerless, Shorham, NY		

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	0.93	0.51	mg/kg	1	09/30/05	10/01/05 KL	SW846 6010B <sup>2</sup>	SW846 3050B <sup>3</sup>
Silver	342	10	mg/kg	10	09/30/05	10/01/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>3</sup>

- (1) Instrument QC Batch: MA16405
- (2) Instrument QC Batch: MA16410
- (3) Prep QC Batch: MP31747



# Report of Analysis

<b>Client Sample ID:</b> APC12SB2SW2-E	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-23	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.5
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	93.5		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> APC12SB2SW3-W	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-24	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.7
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium <sup>a</sup>	7.4	5.4	mg/kg	10	09/30/05	10/01/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	324	11	mg/kg	10	09/30/05	10/01/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16405

(2) Prep QC Batch: MP31748

(a) Elevated detection limit due to dilution required for matrix interference.

# Report of Analysis

**Client Sample ID:** APC12SB2SW3-W

**Lab Sample ID:** J11121-24

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 09/28/05

**Date Received:** 09/29/05

**Percent Solids:** 92.7

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	92.7		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> APC12SB2SW4-S	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-25	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.7
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium <sup>a</sup>	<5.5	5.5	mg/kg	10	09/30/05	10/01/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	369	11	mg/kg	10	09/30/05	10/01/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16405

(2) Prep QC Batch: MP31748

(a) Elevated detection limit due to dilution required for matrix interference.

# Report of Analysis

<b>Client Sample ID:</b> APC12SB2SW4-S	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-25	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.7
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	93.7		%	1	10/01/05	SS	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> APC12SB2B		<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-26		<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 94.9
<b>Project:</b> AGFA-Peerless, Shorham, NY		

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium <sup>a</sup>	< 5.4	5.4	mg/kg	10	09/30/05	10/01/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	341	11	mg/kg	10	09/30/05	10/01/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16405

(2) Prep QC Batch: MP31748

(a) Elevated detection limit due to dilution required for matrix interference.

# Report of Analysis

<b>Client Sample ID:</b> APC12SB2B	<b>Date Sampled:</b> 09/28/05
<b>Lab Sample ID:</b> J11121-26	<b>Date Received:</b> 09/29/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 94.9
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	94.9		%	1	10/01/05	SS	ASTM 4643-00

**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE PREPARATION AND ANALYSIS SUMMARY**  
**INORGANIC ANALYSIS**

Project Number: J11121

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
J11121-1	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-2	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-3	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-4	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-5	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-6	Soil	Total Metals	29-Sep-05	30-Sep-05
J11121-7	Soil	Total Metals	29-Sep-05	30-Sep-05
J11121-8	Soil	Total Metals	29-Sep-05	30-Sep-05
J11121-9	Soil	Total Metals	29-Sep-05	30-Sep-05
J11121-10	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-11	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-12	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-13	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-14	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-15	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-18	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-19	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-20	Field Blank Soil	Total Metals	29-Sep-05	30-Sep-05
J11121-21	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-22	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-23	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-24	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-25	Soil	Total Metals	29-Sep-05	1-Oct-05
J11121-26	Soil	Total Metals	29-Sep-05	1-Oct-05









**APPENDIX B**

# Inorganic Data Validation Summary

ATC

Project Name: Peerless Photo Products  
 Project No.: 68.28817.0001  
 Project Manager: M. McNally  
 Laboratory: Accutest

Case No./SDG: J11121  
 Sampling Date(s): 9/28/2005  
 Reviewed By: M. Traxler  
 Completion Date: 3/16/2006

Compound List:  TAL  Appendix IX  Other \_\_\_\_\_  
 Method:  CLP SOW 3/90  SW-846  Other \_\_\_\_\_  
 Matrix:  soil/solid (mg/Kg)  aqueous (ug/L)

The following table indicates the data validation criteria examined, problems identified, and QA action.

Data Validation Criteria:	accept	FYI	qualify	comments
Holding Times	X			Less than 180 days
Calibration Linearity - Furnace, Hg, and CN				NR
Calibration Verification	X			2-point standard
CRDL Standard	X			50 - 150 % R
Calibration Blanks	X			< RL
Preparation Blanks	X			< RL
Field Blank	X			< RL
ICP Interference Check Sample	X			80 - 120 % R
Laboratory Control Sample	X			80 - 120 % R
Matrix Spike Results	X			75 - 125 % R
Laboratory Duplicate Results	X			< 20 RPD
ICP Serial Dilution	X			< 10 RPD
Post Digestion Analytical Spike				NR
Method of Standard Addition				NR
Field Duplicate Results	X			< 50 RPD
Sample Result Verification	X			Cadmium and Silver
Other:				

General Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NA - Not applicable  
 NR - Not reviewed

QA Scientist M. Traxler Date 3/17/06

# Inorganic Field Duplicate Precision Worksheet

ATC

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: J11121

Sample Location or Description	APC6WSSASW2-NW	DUP092805
Sample Number	J11121-12	J11121-10
Sampling Date	9/28/2005	9/28/2005
Units	mg/kg	mg/kg

Sample

Field Duplicate

			RPD	Q
Cadmium				
Silver				

\* - Denotes RPD outside criteria

# Inorganic Matrix Spike/ Matrix Spike Duplicate Worksheet

ATC

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: J11121

Sample Location or Description	APC6WSSASW5-SE	APC6WSSASW5-SE	APC6WSSASW5-SE
Sample Number	J11121-15	J11121-16	J11121-17
Sampling Date	9/28/2005	9/28/2005	9/28/2005
Units	mg/kg	mg/kg	mg/kg

	Spike Amount	Sample Result	MS Result	MSD Result	MS %R		MSD %R		RPD	
					Q		Q		Q	
Cadmium	10/11	0.0	8.9	9.6	85.4		88.5		7.6	
Silver	10/10.9	0.0	9.4	12.3	90.2		113		26.7	*

Q - Qualifier

\* - Denotes RPD outside criteria

SERIAL DILUTION RESULTS SUMMARY

Login Number: J11121  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31748  
 Matrix Type: SOLID

Methods: SW846 6010B  
 Units: ug/l

Prep Date: 09/30/05

Metal	J11116-1 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium				
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium				
Cobalt				
Copper	anr			
Iron				
Lead	anr			
Magnesium				
Manganese				
Nickel				
Potassium				
Selenium				
Silver	1.58	0.00	100.0(a)	0-10
Sodium				
Thallium				
Vanadium				
Zinc	anr			

*Mr 3/17/06  
 Serial dilution - < 50x IDL*

Associated samples MP31748: J11121-24, J11121-25, J11121-26

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested  
 (a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).



SERIAL DILUTION RESULTS SUMMARY

Login Number: J11121  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31750  
 Matrix Type: AQUEOUS

Methods: SW846 6010B  
 Units: ug/l

Prep Date: 09/30/05

Metal	J10612-1F Original	SDL 1:5	RPD	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	1.30	0.00	100.0(a)	0-10
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	1.36	0.00	100.0(a)	0-10
Sodium	anr			
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

MT 3/17/06  
 Serial dilutions - < 50x IDL

Associated samples MP31750: J11121-20

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested  
 (a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

**DATA USABILITY REPORT**

**ACCUTEST CASE NO. J12137**

**DATA USABILITY SUMMARY REPORT**

**FOR**

**PEERLESS PHOTO PRODUCTS  
SHORHAM, NEW YORK  
OCTOBER 2005**

**REPORTED MARCH 2006**

**ATC PROJECT NO. 68.28817.0001**

**PREPARED BY**

*Mark Traxler*


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**MARK TRAXLER  
SENIOR QUALITY ASSURANCE SCIENTIST**



920 Germantown Pike, Suite 200 ■ Plymouth Meeting, PA 19462

The following Data Usability Summary Report (DUSR) was conducted by the ATC Associates Inc. Environmental Chemistry and Quality Assurance Department. This report has concluded that the following analytical data, with the use of the stated qualifications, generated in the sampling event of October 7, 2005 for the Peerless Photo Products Site are acceptable for its intended use in the subject investigation.



\_\_\_\_\_  
Mark Traxler  
Senior Quality Assurance Scientist

**DATA USABILITY SUMMARY  
METALS  
PEERLESS PHOTO PRODUCTS SITE  
OCTOBER 2005**

**1.0 INTRODUCTION**

This Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. This DUSR has been developed from a full NYSDEC Analytical Services Protocol (ASP) Category B deliverables package.

This DUSR addresses the two (2) metals (cadmium and silver) results from the October 7, 2005 soil sampling event at the Peerless Photo Products site in Shorham, New York. Case J12137 included a total of seven (7) soil samples, including one (1) set of field duplicate samples, plus one (1) Matrix Spike/Matrix Duplicate (MS/MD) pair for limited metals (cadmium and silver) analysis. Case J12137 also included one (1) aqueous field blank sample for limited metals (cadmium and silver) analysis.

The findings offered in this DUSR are based upon a general review of sample data, holding times, initial and continuing calibration verification results, contract required detection limit (CRDL) standard results, blank contamination results, inductively coupled plasma (ICP) interference check sample results, spike sample results, laboratory and field duplicate results, and laboratory control sample results. All samples in this report were analyzed by Accutest Laboratories, Dayton, New Jersey following United States Environmental Protection Agency (EPA) *Test Methods for Evaluating Solid Waste*, Update III, 1996 (SW-846) Methods 3050B (and 3010A for the aqueous field blank sample) and 6010B. The quality assurance review of the data described was prepared according to EPA's *National Functional Guidelines for Inorganic Data Review, Final*, (EPA 540-R-04-004) dated October 2004, where applicable to SW-846 Methods. Method protocol criteria were also considered as prescribed by SW-846.

The analytical data deliverables for Case J12137 consist of NYSDCE ASP Category B reporting forms and raw data for each analysis, which includes instrument printouts, notebook pages, and chain-of-custody (COC) documents.

The data summary tables list the two (2) metals that were analyzed. Appendix A provides the sample results as reported by the laboratory, along with a copy of the associated COC documentation. The support documentation in Appendix B summarizes the specific issues raised in this review. Analytical problems that were encountered were outlined in the Findings/Qualifiers section.

The following components of the data package were reviewed for completeness:

- Sample chain-of-custody form;
- Case narrative;
- Summary forms and supporting documents;
- Calibration data;
- Instrument and method performance data;
- Data report forms, preparation logs and run logs; and
- Raw analytical data.

The following items of the data package were reviewed for compliance:

- The data package is complete, as defined above;
- The data has been produced and reported in a manner consistent with the requirements of the Quality Assurance Project Plan (QAPP);
- The QAPP-defined quality assurance (QA) and quality control (QC) criteria have been met;
- Instrument calibration requirements have been met for the time frame during which the analyses were completed;
- Initial and Continuing calibration data are presented and documented;
- Data reporting forms are complete; and
- Problems encountered during the analytical process have been reported in the case narrative.

## **2.0 LABORATORY DATA PACKAGE**

The data package that was received from Accutest was paginated, complete and overall was of good quality. Comments on specific QA/QC issues and other requirements are discussed in detail in this report.

The samples were collected, properly preserved, shipped under a chain of custody record, and received at Accutest on the next day. All samples were received intact and in good condition at Accutest.

The soil samples were collected and analyzed for total cadmium and silver following SW-846 Methods 3050B for digestion and 6010B for analysis. The aqueous cadmium and silver was analyzed following SW-846 Method 3010A for digestion and 6010B for analysis.

### **3.0 FINDINGS/QUALIFIERS**

The following metals analysis elements were reviewed for compliance:

- Custody documentation
- Holding times
- Initial and continuing calibrations
- Contract Required Detection Limit (CRDL) check sample
- Laboratory preparation blanks and field blanks
- Inductively coupled plasma (ICP) interference check sample
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample recoveries
- ICP serial dilution
- Sample result verification and identification
- Quantitation limits

It is recommended that Case J12137 metals results be used with no qualifiers.

### **4.0 SUMMARY**

The metals results are acceptable as qualified. Holding times, initial and continuing calibration verification results, CRDL check sample results, continuing calibration blank results, laboratory preparation blank results, blank sample results, ICP interference check sample results, matrix spike recoveries, laboratory duplicates, field duplicates, laboratory control sample results, and ICP serial dilution results were within acceptance limits. Sample results were properly verified and identified, along with the appropriate quantitation limits.

This review has identified no areas of concern. The data has been qualified accordingly on the data summary table. For specifics relating to this review, see the attached documentation in Appendix B.

## QUALIFIER CODES - METALS

- U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ - The result is an estimated quantity, but the result may be biased high.
- J- - The result is an estimated quantity, but the result may be biased low.
- UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise
- R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be in the sample.



DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 10/7/2005

Soil (mg/kg)

Laboratory Accutest - Dayton, NJ  
 Case/Order # J12137  
 Fraction/Method Metals / 3050B / 6010B

Sample Location or Description	DUP100705	APC6WSSA88-E	APC12SB10B9	APC12SB10SW5-N	APC12SB10SW6-E	APC12SB10SW7-W	APC12SB10SW8-S			
Sample Number	J12137-1	J12137-2	J12137-3	J12137-4	J12137-5	J12137-6	J12137-7			
Sampling Date	10/7/2005	10/7/2005	10/7/2005	10/7/2005	10/7/2005	10/7/2005	10/7/2005			
Preparation Date	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005			
Analysis Date	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005			
Percent Solids	85.1	92.6	96.0	98.0	96.0	98.2	97.2			
RL	P F	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF
0.40	Cadmium X	U 1 0.59	1 0.69	1	U 1 0.44	1	U 1	U 1		
0.50	Silver X	1.3 1	1.0 1	1	U 1 266	1	15.3 1	39.9 1		

Sample Location or Description										
Sample Number										
Sampling Date										
Preparation Date										
Analysis Date										
Percent Solids										
RL	P F	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF
0.40	Cadmium X									
0.50	Silver X									

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 10/7/2005

Aqueous (ug/L)

Laboratory Accutest - Dayton, NJ  
 Case/Order # J12137  
 Fraction/Method Metals / 3010A / 6010B

Sample Location or Description		FB100705															
Sample Number		J12137-8															
Sampling Date		10/7/2005															
Preparation Date		10/11/2005															
Analysis Date		10/12/2005															
RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
4.0	Cadmium	X		U	1												
5.0	Silver	X		U	1												

Sample Location or Description																	
Sample Number																	
Sampling Date																	
Preparation Date																	
Analysis Date																	
RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
4.0	Cadmium	X															
5.0	Silver	X															

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

APPENDIX A

**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY**

Project Number: J12137

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Customer Sample Code	Laboratory Sample ID	Analytical Requirements					Metals	Other
		VOA GC/MS Method 8260B	BNA GC/MS Method 8270C	GC Method 8081A	GC Method 8082	GC Method 8151		
DUP100705	J12137-1						X	
APC6WSSAB8-E	J12137-2						X	
APC12SB10B9	J12137-3						X	
APC12SB10SW5-N	J12137-4						X	
APC12SB10SW6-E	J12137-5						X	
APC12SB10SW7-W	J12137-6						X	
APC12SB10SW8-S	J12137-7						X	
FB100705	J12137-8						X	

# Report of Analysis

<b>Client Sample ID:</b> DUP100705	<b>Date Sampled:</b> 10/07/05
<b>Lab Sample ID:</b> J12137-1	<b>Date Received:</b> 10/08/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 85.1
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.46	0.46	mg/kg	1	10/11/05	10/12/05 AMA	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	1.3	0.58	mg/kg	1	10/11/05	10/12/05 AMA	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: M:MA6342

(2) Prep QC Batch: M:MP7749

### Report of Analysis

<b>Client Sample ID:</b> DUP100705	<b>Date Sampled:</b> 10/07/05
<b>Lab Sample ID:</b> J12137-1	<b>Date Received:</b> 10/08/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 85.1
<b>Project:</b> AGFA-Peerless, Shorham, NY	

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.1		%	1	10/12/05	AMA	EPA 160.3 M

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> APC6WSSAB8-E		<b>Date Sampled:</b> 10/07/05
<b>Lab Sample ID:</b> J12137-2		<b>Date Received:</b> 10/08/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 92.6
<b>Project:</b> AGFA-Peerless, Shorham, NY		

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	0.59	0.42	mg/kg	1	10/11/05	10/12/05 AMA	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	1.0	0.53	mg/kg	1	10/11/05	10/12/05 AMA	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: M:MA6342

(2) Prep QC Batch: M:MP7749

# Report of Analysis

<b>Client Sample ID:</b> APC6WSSAB8-E	<b>Date Sampled:</b> 10/07/05
<b>Lab Sample ID:</b> J12137-2	<b>Date Received:</b> 10/08/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.6
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	92.6		%	1	10/12/05	AMA	EPA 160.3 M



## Report of Analysis

<b>Client Sample ID:</b> APC12SB10B9	<b>Date Sampled:</b> 10/07/05
<b>Lab Sample ID:</b> J12137-3	<b>Date Received:</b> 10/08/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.0
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	0.69	0.40	mg/kg	1	10/11/05	10/12/05 AMA	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	97.9	0.51	mg/kg	1	10/11/05	10/12/05 AMA	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: M:MA6342

(2) Prep QC Batch: M:MP7749

# Report of Analysis

**Client Sample ID:** APC12SB10B9

**Lab Sample ID:** J12137-3

**Matrix:** SO - Soil

**Date Sampled:** 10/07/05

**Date Received:** 10/08/05

**Percent Solids:** 96.0

**Project:** AGFA-Peerless, Shorham, NY

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.0		%	1	10/12/05	AMA	EPA 160.3 M

## Report of Analysis

<b>Client Sample ID:</b> APC12SB10SW5-N <b>Lab Sample ID:</b> J12137-4 <b>Matrix:</b> SO - Soil <b>Project:</b> AGFA-Peerless, Shorham, NY	<b>Date Sampled:</b> 10/07/05 <b>Date Received:</b> 10/08/05 <b>Percent Solids:</b> 98.0
---	--

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.39	0.39	mg/kg	1	10/11/05	10/12/05	AMA SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	<0.48	0.48	mg/kg	1	10/11/05	10/12/05	AMA SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: M:MA6342

(2) Prep QC Batch: M:MP7749

## Report of Analysis

<b>Client Sample ID:</b> APC12SB10SW5-N	<b>Date Sampled:</b> 10/07/05
<b>Lab Sample ID:</b> J12137-4	<b>Date Received:</b> 10/08/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 98.0
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	98.0		%	1	10/12/05	AMA	EPA 160.3 M

---

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> APC12SB10SW6-E	
<b>Lab Sample ID:</b> J12137-5	<b>Date Sampled:</b> 10/07/05
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 10/08/05
	<b>Percent Solids:</b> 96.0
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	0.44	0.39	mg/kg	1	10/11/05	10/12/05 AMA	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	266	0.97	mg/kg	2	10/11/05	10/12/05 AMA	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: M:MA6342

(2) Prep QC Batch: M:MP7749

### Report of Analysis

<b>Client Sample ID:</b> APC12SB10SW6-E	<b>Date Sampled:</b> 10/07/05
<b>Lab Sample ID:</b> J12137-5	<b>Date Received:</b> 10/08/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.0
<b>Project:</b> AGFA-Peerless, Shorham, NY	

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.0		%	1	10/12/05	AMA	EPA 160.3 M

## Report of Analysis

<b>Client Sample ID:</b> APC12SB10SW7-W <b>Lab Sample ID:</b> J12137-6 <b>Matrix:</b> SO - Soil <b>Project:</b> AGFA-Peerless, Shorham, NY	<b>Date Sampled:</b> 10/07/05 <b>Date Received:</b> 10/08/05 <b>Percent Solids:</b> 98.2
---	--

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.38	0.38	mg/kg	1	10/11/05	10/12/05 AMA	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	15.3	0.47	mg/kg	1	10/11/05	10/12/05 AMA	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: M:MA6342

(2) Prep QC Batch: M:MP7749

### Report of Analysis

<b>Client Sample ID:</b> APC12SB10SW7-W	<b>Date Sampled:</b> 10/07/05
<b>Lab Sample ID:</b> J12137-6	<b>Date Received:</b> 10/08/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 98.2
<b>Project:</b> AGFA-Peerless, Shorham, NY	

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	98.2		%	1	10/12/05	AMA	EPA 160.3 M



## Report of Analysis

<b>Client Sample ID:</b> APC12SB10SW8-S	<b>Date Sampled:</b> 10/07/05
<b>Lab Sample ID:</b> J12137-7	<b>Date Received:</b> 10/08/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 97.2
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.40	0.40	mg/kg	1	10/11/05	10/12/05 AMA	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	39.9	0.50	mg/kg	1	10/11/05	10/12/05 AMA	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: M:MA6342

(2) Prep QC Batch: M:MP7749

# Report of Analysis

**Client Sample ID:** APC12SB10SW8-S

**Lab Sample ID:** J12137-7

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 10/07/05

**Date Received:** 10/08/05

**Percent Solids:** 97.2

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.2		%	1	10/12/05	AMA	EPA 160.3 M

## Report of Analysis

<b>Client Sample ID:</b> FB100705	<b>Date Sampled:</b> 10/07/05
<b>Lab Sample ID:</b> J12137-8	<b>Date Received:</b> 10/08/05
<b>Matrix:</b> AQ - Field Blank Soil	<b>Percent Solids:</b> n/a
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<4.0	4.0	ug/l	1	10/11/05	10/12/05	AMA SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>
Silver	<5.0	5.0	ug/l	1	10/11/05	10/12/05	AMA SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: M:MA6342

(2) Prep QC Batch: M:MP7750

**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE PREPARATION AND ANALYSIS SUMMARY**  
**INORGANIC ANALYSIS**

Project Number: J12137

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
J12137-1	Soil	T.A.L Metals	8-Oct-05	12-Oct-05
J12137-2	Soil	T.A.L Metals	8-Oct-05	12-Oct-05
J12137-3	Soil	T.A.L Metals	8-Oct-05	12-Oct-05
J12137-4	Soil	T.A.L Metals	8-Oct-05	12-Oct-05
J12137-5	Soil	T.A.L Metals	8-Oct-05	12-Oct-05
J12137-6	Soil	T.A.L Metals	8-Oct-05	12-Oct-05
J12137-7	Soil	T.A.L Metals	8-Oct-05	12-Oct-05
J12137-8	Field Blank Soil	T.A.L Metals	8-Oct-05	12-Oct-05



**APPENDIX B**

# Inorganic Data Validation Summary

ATC

Project Name: Peerless Photo Products  
 Project No.: 68.28817.0001  
 Project Manager: M. McNally  
 Laboratory: Accutest

Case No./SDG: J12137  
 Sampling Date(s): 10/7/2005  
 Reviewed By: M. Traxler  
 Completion Date: 3/2/2006

Compound List:  TAL  Appendix IX  Other \_\_\_\_\_  
 Method:  CLP SOW 3/90  SW-846  Other \_\_\_\_\_  
 Matrix:  soil/solid (mg/Kg)  aqueous (ug/L)

The following table indicates the data validation criteria examined, problems identified, and QA action.

Data Validation Criteria:	accept	FYI	qualify	comments
Holding Times	X			Less than 180 days
Calibration Linearity - Furnace, Hg, and CN				NR
Calibration Verification	X			2-point standard
CRDL Standard	X			50 - 150 % R
Calibration Blanks	X			< RL
Preparation Blanks	X			< RL
Field Blank	X			< RL
ICP Interference Check Sample	X			80 - 120 % R
Laboratory Control Sample	X			80 - 120 % R
Matrix Spike Results	X			75 - 125 % R
Laboratory Duplicate Results	X			< 20 RPD
ICP Serial Dilution	X			< 10 RPD
Post Digestion Analytical Spike				NR
Method of Standard Addition				NR
Field Duplicate Results	X			< 50 RPD
Sample Result Verification	X			Cadmium and Silver
Other:				

General Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NA - Not applicable  
 NR - Not reviewed

QA Scientist M Traxler Date 3/2/06

# Inorganic Field Duplicate Precision Worksheet

ATC

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: J12137

Sample Location or Description	APC6WSSAB8-E	DUP100705
Sample Number	J12137-2	J12137-1
Sampling Date	10/3/2005	10/3/2005
Units	mg/kg	mg/kg

	Sample	Field Duplicate	RPD	Q
Cadmium		0.59		
Silver	1.3	1.0	26.1	

\* - Denotes RPD outside criteria



# Inorganic Matrix Spike/ Matrix Duplicate Worksheet

ATC

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: J12137

Sample Location or Description	APC6WSSAB8-E	APC6WSSAB8-EMS	APC6WSSAB8-EMD
Sample Number	J12137-2	J12137-2MS	J12137-2MD
Sampling Date	10/7/2005	10/7/2005	10/7/2005
Units	mg/kg	mg/kg	mg/kg

	Spike Amount	Sample Result	MS Result	MD Result	MS %R	Q	MD RPD	Q
Cadmium	53	0.59	52.9	0.66	99.0		11.2	
Silver	22	1.0	21.2	0.96	99.2		4.1	

Q - Qualifier  
 \* - Denotes RPD outside criteria



## SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest of New Jersey

Job No J12137

Site: BCMNJ: AGFA-Peerless, Shorham, NY

Report Date 11/2/2005 11:26:06 A

7 Samples and 1 Field Blank were collected on 10/07/2005 and were received at Accutest of New Jersey on 10/08/2005. Samples received at Accutest of New England on 10/11/2005 at 3.3 Deg. C and intact. These Samples received an Accutest job number of J12137. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7750

- \* 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) M51426-1DUP, M51426-1MS, M51426-1SDL were used as the QC samples for metals.
- \* RPD(s) for Duplicate for Silver are outside control limits for sample MP7750-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix: SO

Batch ID: MP7749

- \* 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) J12137-2DUP, J12137-2MS, J12137-2SD1. were used as the QC samples for metals.
- \* RPD(s) for Serial Dilution for Cadmium are outside control limits for sample MP7749-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

### Wet Chemistry By Method EPA 160.3 M

Matrix: SO

Batch ID: GN18088

- \* Sample(s) J12137-2DUP were used as the QC samples for Solids, Percent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J12137).

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J12137  
 Account: ALNJ - Accutest of New Jersey  
 Project: BCMNJ: AGFA-Peerless, Shorham, NY

QC Batch ID: MP7749  
 Matrix Type: SOLID

Methods: SW846 6010B  
 Units: mg/kg

Prep Date: 10/11/05 10/11/05

Metal	J12137-2 Original MS		Spikelot MPIRWS2	% Rec	QC Limits	J12137-2 Original DUP		RPD	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium	0.59	53.0	52.9	99.0	75-125	0.59	0.66	11.2	0-20
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silicon									
Silver	1.0	22.0	21.2	99.2	75-125	1.0	0.96	4.1	0-20
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc									

Associated samples MP7749: J12137-1, J12137-2, J12137-3, J12137-4, J12137-5, J12137-6, J12137-7

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

**DATA USBALITY REPORT**  
**ACCUTEST CASE NO. J8781**

**DATA USABILITY SUMMARY REPORT**

**FOR**

**PEERLESS PHOTO PRODUCTS  
SHORHAM, NEW YORK  
SEPTEMBER 2005**

**REPORTED FEBRUARY 2006**

**ATC PROJECT NO. 68.28817.0001**

**PREPARED BY**

*Mark Traxler*

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**MARK TRAXLER  
SENIOR QUALITY ASSURANCE SCIENTIST**



920 Germantown Pike, Suite 200 • Plymouth Meeting, PA 19462

The following Data Usability Summary Report (DUSR) was conducted by the ATC Associates Inc. Environmental Chemistry and Quality Assurance Department. This report has concluded that the following analytical data, with the use of the stated qualifications, generated in the sampling event of September 2, 2005 for the Peerless Photo Products Site are acceptable for its intended use in the subject investigation.



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Mark Traxler  
Senior Quality Assurance Scientist

**DATA USABILITY SUMMARY  
TCLP METALS  
PEERLESS PHOTO PRODUCTS SITE  
SEPTEMBER 2005**

**1.0 INTRODUCTION**

This Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. This DUSR has been developed from a full NYSDEC Analytical Services Protocol (ASP) Category B deliverables package.

This DUSR addresses the eight (8) Toxicity Characteristic Leaching Procedure (TCLP) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver) results from the September 2, 2005 soil sampling event at the Peerless Photo Products site in Shorham, New York. Case J8781 included a total of two (2) soil samples for TCLP metals analysis.

The findings offered in this DUSR are based upon a general review of sample data, holding times, initial and continuing calibration verification results, contract required detection limit (CRDL) standard results, blank contamination results, inductively coupled plasma (ICP) interference check sample results, spike sample results, laboratory and field duplicate results, and laboratory control sample results. All samples in this report were analyzed by Accutest Laboratories, Dayton, New Jersey following United States Environmental Protection Agency (EPA) *Test Methods for Evaluating Solid Waste, Update III, 1996 (SW-846) Methods 1311, 3010A, 7470 and 6010B*. The quality assurance review of the data described was prepared according to EPA's *National Functional Guidelines for Inorganic Data Review, Final, (EPA 540-R-04-004)* dated October 2004, where applicable to SW-846 Methods. Method protocol criteria were also considered as prescribed by SW-846.

The analytical data deliverables for Case J8781 consist of NYSDCE ASP Category B reporting forms and raw data for each analysis, which includes instrument printouts, notebook pages, and chain-of-custody (COC) documents.

The data summary tables list the eight (8) metals that were analyzed. Appendix A provides the sample results as reported by the laboratory, along with a copy of the associated COC documentation. The support documentation in Appendix B summarizes the specific issues raised in this review. Analytical problems that were encountered were outlined in the Findings/Qualifiers section.

The following components of the data package were reviewed for completeness:

- Sample chain-of-custody form;
- Case narrative;
- Summary forms and supporting documents;
- Calibration data;
- Instrument and method performance data;
- Data report forms, preparation logs and run logs; and
- Raw analytical data.

The following items of the data package were reviewed for compliance:

- The data package is complete, as defined above;
- The data has been produced and reported in a manner consistent with the requirements of the Quality Assurance Project Plan (QAPP);
- The QAPP-defined quality assurance (QA) and quality control (QC) criteria have been met;
- Instrument calibration requirements have been met for the time frame during which the analyses were completed;
- Initial and Continuing calibration data are presented and documented;
- Data reporting forms are complete; and
- Problems encountered during the analytical process have been reported in the case narrative.

## **2.0 LABORATORY DATA PACKAGE**

The data package that was received from Accutest was paginated, complete and overall was of good quality. Comments on specific QA/QC issues and other requirements are discussed in detail in this report.

The samples were collected, properly preserved, shipped under a chain of custody record, and received at Accutest on the same day (January 9, 2006). All samples were received intact and in good condition at Accutest.

The soil samples were collected and analyzed for TCLP metals following SW-846 Method 1311 for TCLP extraction, 3010A for digestion and 6010B for analysis (except for mercury, which was 7470).



### **3.0 FINDINGS/QUALIFIERS**

The following TCLP metals analysis elements were reviewed for compliance:

- Custody documentation
- Holding times
- Initial and continuing calibrations
- Contract Required Detection Limit (CRDL) check sample
- Laboratory preparation blanks and field blanks
- Inductively coupled plasma (ICP) interference check sample
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample recoveries
- ICP serial dilution
- Sample result verification and identification
- Quantitation limits

It is recommended that Case J8781 metals results be used with the following qualifiers:

1. Batch QC samples were used for MS/MSD and serial dilution results. There were no field duplicate, field blank, or site-specific MS/MSD samples associated with this batch of samples.
2. The ICP serial dilution exceeded the control limit of 10% difference for several metals. However, since the original values were less than 50 times the Instrument Detection Limit (IDL), the ICP serial dilution for these metals were acceptable. No qualification of data was necessary due to the ICP serial dilution results.

### **4.0 SUMMARY**

The TCLP metals results are acceptable as qualified. Holding times, initial and continuing calibration verification results, CRDL check sample results, continuing calibration blank results, laboratory preparation blank results, blank sample results, ICP interference check sample results, matrix spike recoveries, laboratory duplicates, field duplicates, laboratory control sample results, and ICP serial dilution results were within acceptance limits. Sample results were properly verified and identified, along with the appropriate quantitation limits.

This review has identified no areas of concern. The data has been qualified accordingly on the data summary table. For specifics relating to this review, see the attached documentation in Appendix B.

## QUALIFIER CODES - METALS

- U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ - The result is an estimated quantity, but the result may be biased high.
- J- - The result is an estimated quantity, but the result may be biased low.
- UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise
- R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be in the sample.

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 9/2/2005

TCLP Leachate (mg/L)

Laboratory

Accutest - Dayton, NJ

Case/Order #

J8781

Fraction/Method

TCLP Metals / 3010A / 6010B

Sample Location or Description	TTB-WC-0-15'	TTB-WC-15-30'														
Sample Number	J8781-1	J8781-2														
Sampling Date	9/2/2005	9/2/2005														
Preparation Date	9/15/2005	9/15/2005														
Analysis Date	9/16/2005	9/16/2005														
Percent Solids	n/a	n/a														
RL	P	Hg	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
0.50	X		U	1		U	1									
1.0	X		U	1		U	1									
0.0050	X		0.59	1	0.91	1										
0.010	X		0.013	1	0.026	1										
0.50	X		U	1		U	1									
0.0020	X	X	U	1		U	1									
0.50	X		U	1		U	1									
0.010	X		0.023	1	0.044	1										

P - ICP  
 Hg - Mercury  
 Q - Qualifier, if any  
 DF - Dilution Factor

APPENDIX A

**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY**

Project Number: J8781

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Customer Sample Code	Laboratory Sample ID	Analytical Requirements					Metals	Other
		VOA GC/MS Method 8260B	BNA GC/MS Method 8270C	GC Method 8081A	GC Method 8082	GC Method 8151		
TTB-WC-0-15'	J8781-1						X	
TTB-WC-15-30'	J8781-2						X	

**Report of Analysis**

<b>Client Sample ID:</b> TTB-WC-0-15'	<b>Date Sampled:</b> 09/02/05
<b>Lab Sample ID:</b> J8781-1	<b>Date Received:</b> 09/03/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> n/a
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis, TCLP Leachate SW846 1311**

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	<0.50	D004	5.0	0.50	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>
Barium	<1.0	D005	100	1.0	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>
Cadmium	0.59	D006	1.0	0.0050	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>
Chromium	0.013	D007	5.0	0.010	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>
Lead	<0.50	D008	5.0	0.50	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>
Mercury	<0.00020	D009	0.20	0.00020	mg/l	1	09/15/05	09/16/05 RP	SW846 7470A <sup>2</sup>	SW846 7470A <sup>4</sup>
Selenium	<0.50	D010	1.0	0.50	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>
Silver	0.023	D011	5.0	0.010	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>

- (1) Instrument QC Batch: MA16327
- (2) Instrument QC Batch: MA16331
- (3) Prep QC Batch: MP31536
- (4) Prep QC Batch: MP31545

## Report of Analysis

Client Sample ID:	TTB-WC-15-30'	Date Sampled:	09/02/05
Lab Sample ID:	J8781-2	Date Received:	09/03/05
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	AGFA-Peerless, Shorham, NY		

## Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	<0.50	D004	5.0	0.50	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>
Barium	<1.0	D005	100	1.0	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>
Cadmium	0.91	D006	1.0	0.0050	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>
Chromium	0.026	D007	5.0	0.010	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>
Lead	<0.50	D008	5.0	0.50	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>
Mercury	<0.00020	D009	0.20	0.00020	mg/l	1	09/15/05	09/16/05 RP	SW846 7470A <sup>2</sup>	SW846 7470A <sup>4</sup>
Selenium	<0.50	D010	1.0	0.50	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>
Silver	0.044	D011	5.0	0.010	mg/l	1	09/15/05	09/16/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>3</sup>

- (1) Instrument QC Batch: MA16327  
(2) Instrument QC Batch: MA16331  
(3) Prep QC Batch: MP31536  
(4) Prep QC Batch: MP31545



**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE PREPARATION AND ANALYSIS SUMMARY**  
**INORGANIC ANALYSIS**

Project Number: J8781

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
J8781-1	Leachate	TCLP Metals	3-Sep-05	16-Sep-05
J8781-2	Leachate	TCLP Metals	3-Sep-05	16-Sep-05



APPENDIX B

# Inorganic Data Validation Summary

ATC

Project Name: Peerless Photo Products  
 Project No.: 68.28817.0001  
 Project Manager: M. McNally  
 Laboratory: Accutest

Case No./SDG: J8781  
 Sampling Date(s): 9/2/2005  
 Reviewed By: M. Traxler  
 Completion Date: 2/28/2006

Compound List:  TAL  Appendix IX  Other\_TCLP\_\_\_\_\_  
 Method:  CLP SOW 3/90  SW-846  Other\_\_\_\_mg/L\_\_\_\_\_  
 Matrix:  soil/solid (mg/Kg)  aqueous (ug/L)

The following table indicates the data validation criteria examined, problems identified, and QA action.

Data Validation Criteria:	accept	FYI	qualify	comments
Holding Times	X			Less than 180 days
Calibration Linearity - Furnace, Hg, and CN				NR
Calibration Verification	X			2-point standard
CRDL Standard	X			50 - 150 % R
Calibration Blanks	X			< RL
Preparation Blanks	X			< RL
Field Blank		X		< RL No FB in batch
ICP Interference Check Sample	X			80 - 120 % R
Laboratory Control Sample	X			80 - 120 % R
Matrix Spike Results	X			75 - 125 % R Batch QC
Laboratory Duplicate Results	X			< 20 RPD
ICP Serial Dilution	X			< 10 RPD (or < 50x IDL)
Post Digestion Analytical Spike				NR
Method of Standard Addition				NR
Field Duplicate Results		X		< 50 RPD No FD in batch
Sample Result Verification	X			
Other:				

General Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NA - Not applicable  
 NR - Not reviewed

QA Scientist M. Traxler Date 2/28/06

# Inorganic Matrix Spike/ Matrix Spike Duplicate Worksheet

ATC

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: J8781

Sample Location or Description
Sample Number
Sampling Date
Units

Batch QC	Batch QC	Batch QC
J9538-1	J9538-1MS	J9538-1MSD
9/15/2005	9/15/2005	9/15/2005
mg/L	mg/L	mg/L

	Spike Amount	Sample Result	MS Result	MSD Result	MS %R		MSD %R		RPD	
						Q		Q		Q
Arsenic	2.0	0.0065	1.8	1.9	89.7		94.7		5.4	
Barium	10.0	0.46	10.7	10.7	102.4		102.4		0.0	
Cadmium	0.050	0.0017	0.050	0.050	96.6		96.6		0.0	
Chromium	0.20	0.0058	0.20	0.20	97.1		97.1		0.0	
Lead	2.0	0.038	2.0	2.0	98.1		98.1		0.0	
Mercury	0.0020	0.0	0.0018	0.0019	90.0		95.0		5.4	
Selenium	2.0	0.0087	1.9	1.9	94.6		94.6		0.0	
Silver	0.050	0.0	0.053	0.053	106.0		106.0		0.0	

Q - Qualifier

\* - Denotes %R or RPD outside criteria



## SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: ATC Associates, Inc.

Job No J8781

Site: AGFA-Peerless, Shorham, NY

Report Date 9/20/2005 4:42:40 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 09/02/2005 and were received at Accutest on 09/03/2005 properly preserved, at 4 Deg. C and intact. These Samples received an Accutest job number of J8781. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Metals By Method SW846 6010B

Matrix: LEACHATE

Batch ID: MP31536

- 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) J9538-1MS, J9538-1MSD, J9538-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Cadmium, Lead, Selenium are outside control limits for sample MP31536-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

### Metals By Method SW846 7470A

Matrix: LEACHATE

Batch ID: MP31545

- 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) J9538-1MS, J9538-1MSD were used as the QC samples for metals.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J8781).

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J8781  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31536  
 Matrix Type: LEACHATE

Methods: SW846 6010B  
 Units: mg/l

Prep Date: 09/15/05

Metal	J9538-1 Original MS	Spikelot MPITCLP1 % Rec	QC Limits
Aluminum			
Antimony			
Arsenic	0.0065 1.8	2.0 89.7	75-125
Barium	0.46 10.7	10.0 102.4	75-125
Beryllium			
Cadmium	0.0017 0.050	0.050 96.6	75-125
Calcium			
Chromium	0.0058 0.20	0.20 97.1	75-125
Cobalt			
Copper	anr		
Iron			
Lead	0.038 2.0	2.0 98.1	75-125
Magnesium			
Manganese			
Nickel	anr		
Potassium			
Selenium	0.0087 1.9	2.0 94.6	75-125
Silver	0.0 0.053	0.050 106.0	75-125
Sodium			
Thallium			
Vanadium			
Zinc	anr		

Associated samples MP31536: J8781-1, J8781-2

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: J8781  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31536  
 Matrix Type: LEACHATE

Methods: SW846 6010B  
 Units: mg/l

Prep Date: 09/15/05

Metal	J9538-1 Original MSD	Spikelot MPITCLP1 % Rec	MSD RPD	QC Limit		
Aluminum						
Antimony						
Arsenic	0.0065	1.9	2.0	94.7	5.4	20
Barium	0.46	10.7	10.0	102.4	0.0	20
Beryllium						
Cadmium	0.0017	0.050	0.050	96.6	0.0	20
Calcium						
Chromium	0.0058	0.20	0.20	97.1	0.0	20
Cobalt						
Copper	anr					
Iron						
Lead	0.038	2.0	2.0	98.1	0.0	20
Magnesium						
Manganese						
Nickel	anr					
Potassium						
Selenium	0.0087	1.9	2.0	94.6	0.0	20
Silver	0.0	0.053	0.050	106.0	0.0	20
Sodium						
Thallium						
Vanadium						
Zinc	anr					

Associated samples MP31536: J8781-1, J8781-2

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: J8781  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31536  
 Matrix Type: LEACHATE

Methods: SW846 6010B  
 Units: mg/l

Prep Date: 09/15/05

Metal	BSP Result	Spikelot MPITCLP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	1.9	2.0	95.0	80-120
Barium	10.6	10.0	106.0	80-120
Beryllium				
Cadmium	0.049	0.050	98.0	80-120
Calcium				
Chromium	0.20	0.20	100.0	80-120
Cobalt				
Copper	anr			
Iron				
Lead	2.0	2.0	100.0	80-120
Magnesium				
Manganese				
Nickel	anr			
Potassium				
Selenium	1.9	2.0	95.0	80-120
Silver	0.055	0.050	110.0	80-120
Sodium				
Thallium				
Vanadium				
Zinc	anr			

Associated samples MP31536: J8781-1, J8781-2

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

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SERIAL DILUTION RESULTS SUMMARY

Login Number: J8781  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31536  
 Matrix Type: LEACHATE

Methods: SW846 6010B  
 Units: ug/l

Prep Date: 09/15/05

Metal	J9538-1 Original	SDL 1.5	RPD	QC Limits
Aluminum				
Antimony				
Arsenic	6.48	0.00	100.0(a)	0-10
Barium	459	448	2.3	0-10
Beryllium				
Cadmium	1.74	0.00	100.0(a)	0-10
Calcium				
Chromium	5.76	6.08	5.4	0-10
Cobalt				
Copper	anr			
Iron				
Lead	38.1	44.8	17.6 (a)	0-10
Magnesium				
Manganese				
Nickel	anr			
Potassium				
Selenium	8.74	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Thallium				
Vanadium				
Zinc	anr			

Associated samples MP31536: J8781-1, J8781-2

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

*MT 2/28/06*

*Results are acceptable.*

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J8781  
Account: BCMNJ - ATC Associates, Inc.  
Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31545  
Matrix Type: LEACHATE

Methods: SW846 7470A  
Units: mg/l

Prep Date: 09/15/05

Metal	J9538-1 Original MS	Spikelet HGPW2	% Rec	QC Limits
Mercury	0.0	0.0018	0.0020	90.0 : 56-137

Associated samples MP31545: J8781-1, J8781-2

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: J8781  
Account: BCMNJ - ATC Associates, Inc.  
Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31545  
Matrix Type: LEACHATE

Methods: SW846 7470A  
Units: mg/l

Prep Date: 09/15/05

Metal	J9538-1 Original MSD	Spikelot HGPW2	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.0019	0.0020	95.0	5.4 22

Associated samples MP31545: J8781-1, J8781-2

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: J8781  
Account: BCMNJ - ATC Associates, Inc.  
Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31545  
Matrix Type: LEACHATE

Methods: SW846 7470A  
Units: mg/l

Prep Date: 09/15/05

Metal	BSP Result	Spikelot HGPW2	% Rec	QC Limits
Mercury	0.0018	0.0020	90.00	80-120

Associated samples MP31545: J8781-1, J8781-2

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

**DATA USABILITY REPORT**  
**ACCUTEST CASE NO. J946B**

**DATA USABILITY SUMMARY REPORT**

**FOR**

**PEERLESS PHOTO PRODUCTS  
SHORHAM, NEW YORK  
SEPTEMBER 2005  
BENCHSCALE TESTING**

**REPORTED FEBRUARY 2006**

**ATC PROJECT NO. 68.28817.0001**

**PREPARED BY**


*Mark Traxler*

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**MARK TRAXLER  
SENIOR QUALITY ASSURANCE SCIENTIST**



The following Data Usability Summary Report (DUSR) was conducted by the ATC Associates Inc. Environmental Chemistry and Quality Assurance Department. This report has concluded that the following analytical data, with the use of the stated qualifications, generated in the benchscale sampling event of September 12, 2005 for the Peerless Photo Products Site are acceptable for its intended use in the subject investigation.



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Mark Traxler  
Senior Quality Assurance Scientist



**DATA USABILITY SUMMARY  
METALS AND TCLP METALS  
PEERLESS PHOTO PRODUCTS SITE  
SEPTEMBER 2005  
BENCHSCALE TESTING**

**1.0 INTRODUCTION**

This Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. This DUSR has been developed from a full NYSDEC Analytical Services Protocol (ASP) Category B deliverables package.

This DUSR addresses the two (2) metals (cadmium and silver) results from the September 12, 2005 soil sampling event at the Peerless Photo Products site in Shorham, New York. Case J9468 included a total of eight (8) soil samples, including one (1) set of field duplicate samples, plus one (1) Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair for limited metals (cadmium and silver) analysis. Case J9468 also included one (1) soil sample for Toxicity Characteristic Leaching Procedure (TCLP) cadmium and silver, in addition to the total metals analysis.

The findings offered in this DUSR are based upon a general review of sample data, holding times, initial and continuing calibration verification results, contract required detection limit (CRDL) standard results, blank contamination results, inductively coupled plasma (ICP) interference check sample results, spike sample results, laboratory and field duplicate results, and laboratory control sample results. All samples in this report were analyzed by Accutest Laboratories, Dayton, New Jersey following United States Environmental Protection Agency (EPA) *Test Methods for Evaluating Solid Waste*, Update III, 1996 (SW-846) Methods 3050B and 6010B, except the TCLP results, which were analyzed following SW-846 Methods 1311, 3010A and 6010B. The quality assurance review of the data described was prepared according to EPA's *National Functional Guidelines for Inorganic Data Review, Final*, (EPA 540-R-04-004) dated October 2004, where applicable to SW-846 Methods. Method protocol criteria were also considered as prescribed by SW-846.

The analytical data deliverables for Case J9468 consist of NYSDCE ASP Category B reporting forms and raw data for each analysis, which includes instrument printouts, notebook pages, and chain-of-custody (COC) documents.

The data summary tables list the two (2) metals that were analyzed. Appendix A provides the sample results as reported by the laboratory, along with a copy of the associated COC documentation. The support documentation in Appendix B summarizes

the specific issues raised in this review. Analytical problems that were encountered were outlined in the Findings/Qualifiers section.

The following components of the data package were reviewed for completeness:

- Sample chain-of-custody form;
- Case narrative;
- Summary forms and supporting documents;
- Calibration data;
- Instrument and method performance data;
- Data report forms, preparation logs and run logs; and
- Raw analytical data.

The following items of the data package were reviewed for compliance:

- The data package is complete, as defined above;
- The data has been produced and reported in a manner consistent with the requirements of the Quality Assurance Project Plan (QAPP);
- The QAPP-defined quality assurance (QA) and quality control (QC) criteria have been met;
- Instrument calibration requirements have been met for the time frame during which the analyses were completed;
- Initial and Continuing calibration data are presented and documented;
- Data reporting forms are complete; and
- Problems encountered during the analytical process have been reported in the case narrative.

## **2.0 LABORATORY DATA PACKAGE**

The data package that was received from Accutest was paginated, complete and overall was of good quality. Comments on specific QA/QC issues and other requirements are discussed in detail in this report.

The samples were collected, properly preserved, shipped under a chain of custody record, and received at Accutest on the same day. All samples were received intact and in good condition at Accutest.

The soil samples were collected and analyzed for total cadmium and silver following SW-846 Methods 3050B for digestion and 6010B for analysis. The TCLP cadmium and silver was analyzed following SW-846 Method 1311 for TCLP extraction, 3010A for digestion and 6010B for analysis.

### 3.0 FINDINGS/QUALIFIERS

The following metals and TCLP metals analysis elements were reviewed for compliance:

- Custody documentation
- Holding times
- Initial and continuing calibrations
- Contract Required Detection Limit (CRDL) check sample
- Laboratory preparation blanks and field blanks
- Inductively coupled plasma (ICP) interference check sample
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample recoveries
- ICP serial dilution
- Sample result verification and identification
- Quantitation limits

It is recommended that Case J9468 metals results be used with the following qualifiers:

1. The MS/MSD percent recoveries for cadmium exceed the control limits of 75-125% (131.7 and 195.0%, respectively). These spike recoveries indicate possible matrix interference or sample non-homogeneity. The laboratory control sample (LCS) was within its control limits. All associated cadmium results are qualified as estimated (J).
2. The MS/MSD percent recoveries for silver exceed the control limits of 75-125% (3818 and -1538%, respectively). These spike recoveries indicate possible matrix interference or sample non-homogeneity. However, the sample concentration exceeded four times the spike amount, rendering the spike values unusable. No qualification of silver results was made due to MS/MSD recoveries or due to a high RPD between these two values.
3. The ICP serial dilution was acceptable for cadmium, but exceeded the control limit of 10% difference (10.7%) for silver on sample J9468-2. However, since the original value of silver exceeded the linear calibration range, and a diluted value was used to report silver for this sample, the ICP serial dilution for silver was inappropriate. No qualification of data was deemed necessary due to the ICP serial dilution results.
4. CCV-11 was out of control limits for cadmium recovery. However, no data were used based on that particular continuing calibration result and no associated data were qualified for this reason.

#### 4.0 SUMMARY

The metals and TCLP metals results are acceptable as qualified. Holding times, initial and continuing calibration verification results, CRDL check sample results, continuing calibration blank results, laboratory preparation blank results, blank sample results, ICP interference check sample results, laboratory duplicates, field duplicates, laboratory control sample results, and ICP serial dilution results were within acceptance limits. Sample results were properly verified and identified, along with the appropriate quantitation limits.

This review has identified matrix spike recoveries and ICP serial dilution results as areas of concern. The data has been qualified accordingly on the data summary table. For specifics relating to this review, see the attached documentation in Appendix B.

## QUALIFIER CODES - METALS

- U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ - The result is an estimated quantity, but the result may be biased high.
- J- - The result is an estimated quantity, but the result may be biased low.
- UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be in the sample.

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 9/12/2005

Soil (mg/kg)

Laboratory Accutest - Dayton, NJ  
 Case/Order # J9468  
 Fraction/Method Metals / 3050B / 6010B

Sample Location or Description	BSB-2 (BUCKET 1)	BSB-3 (BUCKET 2)	BSB-4 (BUCKET 3)	BSB-5 (BUCKET 4)	BSB-6 (BUCKET 5)	BSB-7 (BUCKET 6)	BSB-8 (BUCKET 7)	FD-2		
Sample Number	J9468-1	J9468-2	J9468-3	J9468-4	J9468-5	J9468-6	J9468-7	J9468-8		
Sampling Date	9/12/2005	9/12/2005	9/12/2005	9/12/2005	9/12/2005	9/12/2005	9/12/2005	9/12/2005		
Preparation Date	9/14/2005	9/14/2005	9/14/2005	9/14/2005	9/14/2005	9/14/2005	9/14/2005	9/14/2005		
Analysis Date	9/15/2005	9/15/2005	9/15/2005	9/15/2005	9/15/2005	9/15/2005	9/15/2005	9/15/2005		
Percent Solids	92.2	93.3	94.1	92.5	94.2	91.9	93.7	93.1		
RL	P F	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF
0.50	Cadmium X	22.7 J 1	20.7 J 1	20.3 J 1	21.0 J 1	25.5 J 1	22.8 J 1	15.6 J 1	16.1 J 1	
1.0	Silver X	536 10	1310 25	463 10	519 10	435 10	492 10	450 10	402 10	

Sample Location or Description										
Sample Number										
Sampling Date										
Preparation Date										
Analysis Date										
Percent Solids										
RL	P F	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF
0.50	Cadmium X									
1.0	Silver X									

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 9/12/2005

TCLP Leachate (mg/L)

Laboratory Accutest - Dayton, NJ  
 Case/Order # J9468  
 Fraction/Method TCLP Metals / 3010A / 6010B

Sample Location or Description	BSB-2 (BUCKET 1)																		
Sample Number	J9468-1R																		
Sampling Date	9/12/2005																		
Preparation Date	9/14/2005																		
Analysis Date	9/26/2005																		
Percent Solids	92.2																		

RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
0.0050	Cadmium	X		0.74	1														
0.010	Silver	X		0.31	1														

Sample Location or Description																			
Sample Number																			
Sampling Date																			
Preparation Date																			
Analysis Date																			
Percent Solids																			

RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
0.0050	Cadmium	X																	
0.010	Silver	X																	

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

QA Scientist M. Fowler DATE 2/20/06

**APPENDIX A**



**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY**

Project Number: J9468

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Customer Sample Code	Laboratory Sample ID	Analytical Requirements						Metals	Other
		VOA	BNA	GC	GC	GC			
		GC/MS Method 8260B	GC/MS Method 8270C	GC Method 8081A	GC Method 8082	GC Method 8151			
BSB-2 (BUCKET 1)	J9468-1						X		
BSB-2 (BUCKET 1)	J9468-1R						X		
BSB-3 (BUCKET 2)	J9468-2						X		
BSB-4 (BUCKET 3)	J9468-3						X		
BSB-5 (BUCKET 4)	J9468-4						X		
BSB-6 (BUCKET 5)	J9468-5						X		
BSB-7 (BUCKET 6)	J9468-6						X		
BSB-8 (BUCKET 7)	J9468-7						X		
FD-2	J9468-8						X		

## Report of Analysis

<b>Client Sample ID:</b> BSB-2 (BUCKET 1)	<b>Date Sampled:</b> 09/12/05
<b>Lab Sample ID:</b> J9468-1	<b>Date Received:</b> 09/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.2
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	22.7	0.55	mg/kg	1	09/14/05	09/15/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	536	11	mg/kg	10	09/14/05	09/15/05 ND	SW846 6010B <sup>2</sup>	SW846 3050B <sup>3</sup>

- (1) Instrument QC Batch: MA16321
- (2) Instrument QC Batch: MA16327
- (3) Prep QC Batch: MP31509

# Report of Analysis

<b>Client Sample ID:</b> BSB-2 (BUCKET 1)	<b>Date Sampled:</b> 09/12/05
<b>Lab Sample ID:</b> J9468-1	<b>Date Received:</b> 09/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.2
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	92.2		%	1	09/13/05	AS	EPA 160.3 M

### Report of Analysis

<b>Client Sample ID:</b> BSB-2 (BUCKET 1)	<b>Date Sampled:</b> 09/12/05
<b>Lab Sample ID:</b> J9468-1R	<b>Date Received:</b> 09/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.2
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis, TCLP Leachate SW846 1311**

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	0.74	D006	1.0	0.0050	mg/l	1	09/26/05	09/26/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>
Silver	0.31	D011	5.0	0.010	mg/l	1	09/26/05	09/26/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA16380  
(2) Prep QC Batch: MP31663

RL = Reporting Limit  
MCL = Maximum Contamination Level (40 CFR 261 6/96)

## Report of Analysis

<b>Client Sample ID:</b> BSB-3 (BUCKET 2)	<b>Date Sampled:</b> 09/12/05
<b>Lab Sample ID:</b> J9468-2	<b>Date Received:</b> 09/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.3
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	20.7	0.55	mg/kg	1	09/14/05	09/15/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	1310	28	mg/kg	25	09/15/05	09/15/05 ND	SW846 6010B <sup>2</sup>	SW846 3050B <sup>3</sup>

- (1) Instrument QC Batch: MA16321
- (2) Instrument QC Batch: MA16327
- (3) Prep QC Batch: MP31509

### Report of Analysis

<b>Client Sample ID:</b> BSB-3 (BUCKET 2)	<b>Date Sampled:</b> 09/12/05
<b>Lab Sample ID:</b> J9468-2	<b>Date Received:</b> 09/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.3
<b>Project:</b> AGFA-Peerless, Shorham, NY	

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	93.3		%	1	09/13/05	AS	EPA 160.3 M

## Report of Analysis

<b>Client Sample ID:</b> BSB-4 (BUCKET 3)		<b>Date Sampled:</b> 09/12/05
<b>Lab Sample ID:</b> J9468-3		<b>Date Received:</b> 09/12/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 94.1
<b>Project:</b> AGFA-Peerless, Shorham, NY		

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	20.3	0.53	mg/kg	1	09/14/05	09/15/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	463	11	mg/kg	10	09/14/05	09/15/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16321

(2) Prep QC Batch: MP31509

# Report of Analysis

<b>Client Sample ID:</b> BSB-4 (BUCKET 3)	<b>Date Sampled:</b> 09/12/05
<b>Lab Sample ID:</b> J9468-3	<b>Date Received:</b> 09/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 94.1
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	94.1		%	1	09/13/05	AS	EPA 160.3 M



### Report of Analysis

<b>Client Sample ID:</b> BSB-5 (BUCKET 4)	
<b>Lab Sample ID:</b> J9468-4	<b>Date Sampled:</b> 09/12/05
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 09/12/05
	<b>Percent Solids:</b> 92.5
<b>Project:</b> AGFA-Peerless, Shorham, NY	

#### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	21.0	0.56	mg/kg	1	09/14/05	09/15/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	519	11	mg/kg	10	09/14/05	09/15/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16321

(2) Prep QC Batch: MP31509

### Report of Analysis

**Client Sample ID:** BSB-5 (BUCKET 4)

**Lab Sample ID:** I9468-4

**Date Sampled:** 09/12/05

**Matrix:** SO - Soil

**Date Received:** 09/12/05

**Percent Solids:** 92.5

**Project:** AGFA-Peerless, Shorham, NY

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	92.5		%	1	09/13/05	AS	EPA 160.3 M

## Report of Analysis

<b>Client Sample ID:</b> BSB-6 (BUCKET 5) <b>Lab Sample ID:</b> J9468-5 <b>Matrix:</b> SO - Soil  <b>Project:</b> AGFA-Peerless, Shorham, NY	<b>Date Sampled:</b> 09/12/05 <b>Date Received:</b> 09/12/05 <b>Percent Solids:</b> 94.2
--	--

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	25.5	0.48	mg/kg	1	09/14/05	09/14/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	435	9.7	mg/kg	10	09/14/05	09/15/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16321  
 (2) Prep QC Batch: MP31509

### Report of Analysis

<b>Client Sample ID:</b> BSB-6 (BUCKET 5)	<b>Date Sampled:</b> 09/12/05
<b>Lab Sample ID:</b> J9468-5	<b>Date Received:</b> 09/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 94.2
<b>Project:</b> AGFA-Peerless, Shorham, NY	

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	94.2		%	1	09/13/05	AS	EPA 160.3 M

## Report of Analysis

<b>Client Sample ID:</b> BSB-7 (BUCKET 6)	<b>Date Sampled:</b> 09/12/05
<b>Lab Sample ID:</b> J9468-6	<b>Date Received:</b> 09/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.9
<b>Project:</b> AGFA-Peerless, Shorham, NY	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	22.8	0.55	mg/kg	1	09/14/05	09/14/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	492	11	mg/kg	10	09/14/05	09/15/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16321

(2) Prep QC Batch: MP31509

### Report of Analysis

<b>Client Sample ID:</b> BSB-7 (BUCKET 6)	
<b>Lab Sample ID:</b> J9468-6	<b>Date Sampled:</b> 09/12/05
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 09/12/05
	<b>Percent Solids:</b> 91.9
<b>Project:</b> AGFA-Peerless, Shorham, NY	

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	91.9		%	1	09/13/05	AS	EPA 160.3 M

# Report of Analysis

**Client Sample ID:** BSB-8 (BUCKET 7)

**Lab Sample ID:** J9468-7

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 09/12/05

**Date Received:** 09/12/05

**Percent Solids:** 93.7

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	15.6	0.53	mg/kg	1	09/14/05	09/14/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	450	11	mg/kg	10	09/14/05	09/15/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16321

(2) Prep QC Batch: MP31509

Accutest Laboratories

## Report of Analysis

Page 1 of 1

**Client Sample ID:** BSB-8 (BUCKET 7)

**Lab Sample ID:** J9468-7

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 09/12/05

**Date Received:** 09/12/05

**Percent Solids:** 93.7

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	93.7		%	1	09/13/05	AS	EPA 160.3 M



### Report of Analysis

<b>Client Sample ID:</b> FD-2	
<b>Lab Sample ID:</b> J9468-8	<b>Date Sampled:</b> 09/12/05
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 09/12/05
	<b>Percent Solids:</b> 93.1
<b>Project:</b> AGFA-Peerless, Shorham, NY	

#### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	16.1	0.51	mg/kg	1	09/14/05	09/14/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	402	10	mg/kg	10	09/14/05	09/15/05 ND	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16321  
(2) Prep QC Batch: MP31509

### Report of Analysis

<b>Client Sample ID:</b> FD-2	<b>Date Sampled:</b> 09/12/05
<b>Lab Sample ID:</b> J9468-8	<b>Date Received:</b> 09/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.1
<b>Project:</b> AGFA-Peerless, Shorham, NY	

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	93.1		%	1	09/13/05	AS	EPA 160.3 M

**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE PREPARATION AND ANALYSIS SUMMARY**  
**INORGANIC ANALYSIS**

Project Number: J9468

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
J9468-1	Soil	T.A.L Metals	12-Sep-05	15-Sep-05
J9468-2	Soil	Tclp Metals	12-Sep-05	15-Sep-05
J9468-3	Soil	T.A.L Metals	12-Sep-05	15-Sep-05
J9468-4	Soil	T.A.L Metals	12-Sep-05	15-Sep-05
J9468-5	Soil	T.A.L Metals	12-Sep-05	15-Sep-05
J9468-6	Soil	T.A.L Metals	12-Sep-05	15-Sep-05
J9468-7	Soil	T.A.L Metals	12-Sep-05	15-Sep-05
J9468-8	Soil	T.A.L Metals	12-Sep-05	15-Sep-05



**APPENDIX B**

# Inorganic Data Validation Summary

ATC

Project Name: Peerless Photo Products  
 Project No.: 68.28817.0001  
 Project Manager: M. McNally  
 Laboratory: Accutest

Case No./SDG: J9468  
 Sampling Date(s): 9/12/2005  
 Reviewed By: M. Traxler  
 Completion Date: 2/20/2006

Compound List:  TAL  Appendix IX  Other \_\_\_\_\_  
 Method:  CLP SOW 3/90  SW-846  Other \_\_\_\_\_  
 Matrix:  soil/solid (mg/Kg)  aqueous (ug/L)

The following table indicates the data validation criteria examined, problems identified, and QA action.

Data Validation Criteria:	accept	FYI	qualify	comments
Holding Times	X			Less than 180 days
Calibration Linearity - Furnace, Hg, and CN				NR
Calibration Verification	X			2-point standard
CRDL Standard	X			50 - 150 % R
Calibration Blanks	X			< RL
Preparation Blanks	X			< RL
Field Blank		X		< RL Not in this batch
ICP Interference Check Sample	X			80 - 120 % R
Laboratory Control Sample	X			80 - 120 % R
Matrix Spike Results			X	75 - 125 % R High Cd recoveries
Laboratory Duplicate Results		X		< 20 RPD Ag sample results are high
ICP Serial Dilution		X		< 10 RPD Ag results too high
Post Digestion Analytical Spike				NR
Method of Standard Addition				NR
Field Duplicate Results	X			< 50 RPD
Sample Result Verification	X			Cadmium and Silver
Other:				

General Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NA - Not applicable  
 NR - Not reviewed

QA Scientist M Traxler Date 2/20/06

# Inorganic Data Validation Summary

ATC

Project Name: Peerless Photo Products  
 Project No.: 68.28817.0001  
 Project Manager: M. McNally  
 Laboratory: Accutest

Case No./SDG: J9468  
 Sampling Date(s): 9/12/2005  
 Reviewed By: M. Traxler  
 Completion Date: 2/20/2006

Compound List:  TAL  Appendix IX  Other\_TCLP\_\_\_\_\_  
 Method:  CLP SOW 3/90  SW-846  Other\_\_mg/L\_\_\_\_\_  
 Matrix:  soil/solid (mg/Kg)  aqueous (ug/L)

The following table indicates the data validation criteria examined, problems identified, and QA action.

Data Validation Criteria:	accept	FYI	qualify	comments
Holding Times	X			Less than 180 days
Calibration Linearity - Furnace, Hg, and CN				NR
Calibration Verification	X			2-point standard
CRDL Standard	X			50 - 150 % R
Calibration Blanks	X			< RL
Preparation Blanks	X			< RL
Field Blank	X			< RL
ICP Interference Check Sample	X			80 - 120 % R
Laboratory Control Sample	X			80 - 120 % R
Matrix Spike Results	X			75 - 125 % R Batch QC
Laboratory Duplicate Results	X			< 20 RPD
ICP Serial Dilution	X			< 10 RPD
Post Digestion Analytical Spike				NR
Method of Standard Addition				NR
Field Duplicate Results		X		< 50 RPD No FD
Sample Result Verification	X			Cadmium and Silver
Other:				

General Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NA - Not applicable  
 NR - Not reviewed

# Inorganic Field Duplicate Precision Worksheet

ATC

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: J9468

Sample Location or Description	BSB-2 (BUCKET 1)	FD-2
Sample Number	J9468-1	J9468-8
Sampling Date	9/12/2005	9/12/2005
Units	mg/kg	mg/kg

	Sample	Field Duplicate	RPD	Q
Cadmium	22.7	16.1	34.0	
Silver	536	402	28.6	

\* - Denotes RPD outside criteria



# Inorganic Matrix Spike/ Matrix Spike Duplicate Worksheet

ATC

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: J9468

Sample Location
or Description
Sample Number
Sampling Date
Units

BSB-3	BSB-3	BSB-3
(BUCKET 2)	(BUCKET 2)	(BUCKET 2)
J9468-2	J9468-2D	J9468-2S
9/12/2005	9/12/2005	9/12/2005
mg/kg	mg/kg	mg/kg

	Spike Amount	Sample Result	MS Result	MSD Result	MS %R	Q	MSD %R	Q	RPD	Q
Cadmium	11.2	20.7	35.4	41.6	131.7	*	195.0	*	16.1	
Silver	11.5	1310	1750	1140	3818	*	-1538	*	42.2	*

Q - Qualifier  
 \* - Denotes RPD outside criteria



## SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: ATC Associates, Inc.

Job No J9468

Site: AGFA-Peerless, Shorham, NY

Report Date 9/28/2005 3:01:46 PM

8 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 09/12/2005 and were received at Accutest on 09/12/2005 properly preserved, at 4.8 Deg. C and intact. These Samples received an Accutest job number of J9468. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Metals By Method SW846 6010B

Matrix: LEACHATE

Batch ID: MP31663

- 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) J10026-1AMS, J10026-1AMSD, J10026-1ASDL were used as the QC samples for metals.

Matrix: SO

Batch ID: MP31509

- 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) J9468-2MSD, J9468-2SDL, J9468-2MSD were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Cadmium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Cadmium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike and Matrix Spike Duplicate Recovery(s) for Silver are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Silver are outside control limits for sample MP31509-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Silver are outside control limits indicating possible matrix interference.

### Wet Chemistry By Method EPA 160.3 M

Matrix: SO

Batch ID: GN82691

- There is no applicable data to evaluate for EPA 160.3 M.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J9468).

10

CALIBRATION CHECK STANDARDS SUMMARY  
Initial and Continuing Calibration Checks

Login Number: J9468  
Account: BCMNJ - ATC Associates, Inc.  
Project: AGFA-Peerless, Shorham, NY

File ID: IR0914M1.DAT  
QC Limits: 95 to 105 % Recovery

Date Analyzed: 09/14/05  
Run ID: MA16321

Methods: EPA 200.7, SW846 6010B  
Units: ug/l

Metal	Sample ID	CCV True	19:43		20:07		21:14			
			CCV9 Results	% Rec	CCV True	CCV10 Results	% Rec	CCV True	CCV11 Results	% Rec
Aluminum		anr								
Antimony		anr								
Arsenic		anr								
Barium		anr								
Beryllium		anr								
Cadmium	2000	2000	2030	101.5	2000	2010	100.5	2000	1600	
Calcium		anr								
Chromium		anr								
Cobalt		anr								
Copper		anr								
Iron		anr								
Lead		anr								
Magnesium		anr								
Manganese		anr								
Nickel		anr								
Potassium		anr								
Selenium		anr								
Silver	250	250	250	100.0	250	250	100.0	250	231	92.4
Sodium		anr								
Thallium		anr								
Vanadium		anr								
Zinc		anr								

MT  
2/17/06  
CCV 11 results  
are low.  
No final results  
based on CCV 11 data

(\*) Outside of QC limits  
(anr) Analyte not requested  
(a) No samples reported for this element in the area bracketed by this QC.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J9468  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31509  
 Matrix Type: SOLID

Methods: SWB46 6010B  
 Units: mg/kg

Prep Date: 09/15/05

Metal	J9468-2 Original MS	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	20.7	35.4	11.2	131.7N(a) 75-125
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel				
Palladium				
Potassium				
Selenium	anr			
Silicon				
Silver	1310	1750	11.5	3817.8(b) 75-125
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

MT 2/17/06

MT 2/17/06

Sample concentration  $\geq 4x$   
 spike amount. No qualification  
 of data due to MS results

Associated samples MP31509: J9468-1, J9468-2, J9468-3, J9468-4, J9468-5, J9468-6, J9468-7, J9468-8

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  
 (a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.  
 (b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J9468  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31509  
 Matrix Type: SOLID

Methods: SW846 6010B  
 Units: mg/kg

Prep Date: 09/15/05

Metal	J9468-2 Original MSD	Spikelot MPIRS1	% Rec	MSD RPD	QC Limit
Aluminum					
Antimony					
Arsenic	anr				
Barium	anr				
Beryllium					
Cadmium	20.7	41.6	10.7	195.0N(a) 16.1	20
Calcium					
Chromium	anr				
Cobalt					
Copper					
Iron					
Lead	anr				
Magnesium					
Manganese					
Molybdenum					
Nickel					
Palladium					
Potassium					
Selenium	anr				
Silicon					
Silver	1310	1140	11	-1538.5N 2.2(c)	20
Sodium					
Thallium					
Tin					
Vanadium					
Zinc					

MT 2/17/06

MT 2/17/06  
 sample concentration  $\geq 4x$   
 spike amount. No qualification  
 of data due to MSD results,  
 or MS/MSD RPD

Associated samples MP31509: J9468-1, J9468-2, J9468-3, J9468-4, J9468-5, J9468-6, J9468-7, J9468-8

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

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

(c) High rpd due to possible sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: J9468  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31509  
 Matrix Type: SOLID

Methods: SW846 6010B  
 Units: mg/kg

Prep Date: 09/14/05 09/15/05

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum								
Antimony								
Arsenic	anr							
Barium	anr							
Beryllium								
Cadmium	10.1	10	101.0	80-120	9.7	10	97.0	80-120
Calcium								
Chromium	anr							
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Molybdenum								
Nickel								
Palladium								
Potassium								
Selenium	anr							
Silicon								
Silver	9.9	10	99.0	80-120	10.0	10	100.0	80-120
Sodium								
Thallium								
Tin								
Vanadium								
Zinc								

*MT 2/17/06  
 LCS results are  
 acceptable.*

Associated samples MP31509: J9468-1, J9468-2, J9468-3, J9468-4, J9468-5, J9468-6, J9468-7, J9468-8

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: J9468  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31509  
 Matrix Type: SOLID

Methods: SW846 6010B  
 Units: ug/l

Prep Date: 09/15/05

Metal	J9468-2 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	190	201	6.1	0-10
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel				
Palladium				
Potassium				
Selenium	anr			
Silicon				
Silver	11900	13100	10.7*(a)	0-10
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

MT  
 2/17/06  
 original value exceeded linear range,  
 Therefore, the high RPD for Ag of the ICP  
 serial dilution should not be used to  
 qualify data.

Associated samples MP31509: J9468-1, J9468-2, J9468-3, J9468-4, J9468-5, J9468-6, J9468-7, J9468-8

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested  
 (a) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: J9468  
Account: BCMNJ - ATC Associates, Inc.  
Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31663  
Matrix Type: LEACHATE

Methods: SW846 6010B  
Units: mg/l

Prep Date: 09/26/05

Metal	RL	IDL	MB raw	final
Aluminum	0.20	.025		
Antimony	0.20	.0045		
Arsenic	0.50	.0044	anr	
Barium	1.0	.0007	anr	
Beryllium	0.0050	.002		
Cadmium	0.0050	.0006	0.00032	<0.0050
Calcium	5.0	.34		
Chromium	0.010	.0015	anr	
Cobalt	0.050	.0009		
Copper	0.025	.001		
Iron	0.10	.034		
Lead	0.50	.0029	anr	
Magnesium	5.0	.015		
Manganese	0.015	.0005		
Molybdenum	0.010	.002		
Nickel	0.040	.0021		
Palladium	0.010	.0026		
Potassium	5.0	.025		
Selenium	0.50	.0033	anr	
Silicon	0.20	.024		
Silver	0.010	.0006	0.000026	<0.010
Sodium	5.0	.16		
Thallium	0.20	.0077		
Tin	0.010	.0042		
Vanadium	0.050	.0016		
Zinc	0.020	.0029		

Associated samples MP31663: J9468-1R

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



**DATA USABILITY REPORT**

**ACCUTEST CASE NO. J6866**

**DATA USABILITY SUMMARY REPORT**

**FOR**

**PEERLESS PHOTO PRODUCTS  
SHORHAM, NEW YORK  
AUGUST 2005  
BENCHSCALE TESTING**

**REPORTED FEBRUARY 2006**

**ATC PROJECT NO. 68.28817.0001**

**PREPARED BY**

*Mark Traxler*

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**MARK TRAXLER  
SENIOR QUALITY ASSURANCE SCIENTIST**



The following Data Usability Summary Report (DUSR) was conducted by the ATC Associates Inc. Environmental Chemistry and Quality Assurance Department. This report has concluded that the following analytical data, with the use of the stated qualifications, generated in the benchscale sampling event of August 11, 2005 for the Peerless Photo Products Site are acceptable for its intended use in the subject investigation.



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Mark Traxler  
Senior Quality Assurance Scientist

**DATA USABILITY SUMMARY  
METALS AND TCLP METALS  
PEERLESS PHOTO PRODUCTS SITE  
AUGUST 2005  
BENCHSCALE TESTING**

**1.0 INTRODUCTION**

This Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. This DUSR has been developed from a full NYSDEC Analytical Services Protocol (ASP) Category B deliverables package.

This DUSR addresses the two (2) metals (cadmium and silver) results from the August 11, 2005 soil sampling event at the Peerless Photo Products site in Shorham, New York. Case J6866 included a total of three (3) soil samples, including one (1) set of field duplicate samples, plus one (1) field blank for limited metals (cadmium and silver) analysis. Sample BSB-1 was also used for the Matrix Spike/Matrix Spike Duplicate (MS/MSD) results.

The findings offered in this DUSR are based upon a general review of sample data, holding times, initial and continuing calibration verification results, contract required detection limit (CRDL) standard results, blank contamination results, inductively coupled plasma (ICP) interference check sample results, spike sample results, laboratory and field duplicate results, and laboratory control sample results. All samples in this report were analyzed by Accutest Laboratories, Dayton, New Jersey following United States Environmental Protection Agency (EPA) *Test Methods for Evaluating Solid Waste, Update III, 1996 (SW-846) Methods 3050B and 6010B*. The quality assurance review of the data described was prepared according to EPA's *National Functional Guidelines for Inorganic Data Review, Final*, (EPA 540-R-04-004) dated October 2004, where applicable to SW-846 Methods. Method protocol criteria were also considered as prescribed by SW-846.

The analytical data deliverables for Case J6866 consist of NYSDCE ASP Category B reporting forms and raw data for each analysis, which includes instrument printouts, notebook pages, and chain-of-custody (COC) documents.

The data summary tables list the two (2) metals that were analyzed. Appendix A provides the sample results as reported by the laboratory, along with a copy of the associated COC documentation. The support documentation in Appendix B summarizes the specific issues raised in this review. Analytical problems that were encountered were outlined in the Findings/Qualifiers section.

The following components of the data package were reviewed for completeness:

- Sample chain-of-custody form;
- Case narrative;
- Summary forms and supporting documents;
- Calibration data;
- Instrument and method performance data;
- Data report forms, preparation logs and run logs; and
- Raw analytical data.

The following items of the data package were reviewed for compliance:

- The data package is complete, as defined above;
- The data has been produced and reported in a manner consistent with the requirements of the Quality Assurance Project Plan (QAPP);
- The QAPP-defined quality assurance (QA) and quality control (QC) criteria have been met;
- Instrument calibration requirements have been met for the time frame during which the analyses were completed;
- Initial and continuing calibration data are presented and documented;
- Data reporting forms are complete; and
- Problems encountered during the analytical process have been reported in the case narrative.

## **2.0 LABORATORY DATA PACKAGE**

The data package that was received from Accutest was paginated, complete and overall was of good quality. Comments on specific QA/QC issues and other requirements are discussed in detail in this report.

The samples were collected, properly preserved, shipped under a chain of custody record, and received at Accutest on the following day. All samples were received intact and in good condition at Accutest.

The soil samples were collected and analyzed for total cadmium and silver following SW-846 Methods 3050B for digestion and 6010B for analysis.

### **3.0 FINDINGS/QUALIFIERS**

The following metals analysis elements were reviewed for compliance:

- Custody documentation
- Holding times
- Initial and continuing calibrations
- Contract Required Detection Limit (CRDL) check sample
- Laboratory preparation blanks and field blanks
- Inductively coupled plasma (ICP) interference check sample
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample recoveries
- ICP serial dilution
- Sample result verification and identification
- Quantitation limits

It is recommended that Case J6866 metals results be used with the following qualifiers:

1. The MS/MSD percent recoveries for silver exceed the control limits of 75-125% (-117 and -268%, respectively). These spike recoveries indicate possible matrix interference or sample non-homogeneity. However, the sample concentration exceeded four times the spike amount, rendering the spike values unusable. No qualification of silver results was made due to MS/MSD recoveries or due to a high RPD between these two values.

### **4.0 SUMMARY**

The metals results are acceptable as qualified. Holding times, initial and continuing calibration verification results, CRDL check sample results, continuing calibration blank results, laboratory preparation blank results, blank sample results, ICP interference check sample results, laboratory duplicates, field duplicates, laboratory control sample results, and ICP serial dilution results were within acceptance limits. Sample results were properly verified and identified, along with the appropriate quantitation limits.

This review has identified matrix spike and matrix spike duplicate recoveries results as areas of concern. The data has been qualified accordingly on the data summary table. For specifics relating to this review, see the attached documentation in Appendix B.

## QUALIFIER CODES - METALS

- U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ - The result is an estimated quantity, but the result may be biased high.
- J- - The result is an estimated quantity, but the result may be biased low.
- UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise
- R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be in the sample.

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68,28817,0001  
 Sampling Date(s) 8/11/2005

Soil (mg/kg)

Laboratory Accutest - Dayton, NJ  
 Case/Order # J6866  
 Fraction/Method Metals / 3050B / 6010B

Sample Location or Description		BSB-1	FD-1												
Sample Number		J6866-1	J6866-2												
Sampling Date		8/11/2005	8/11/2005												
Preparation Date		8/15/2005	8/15/2005												
Analysis Date		8/16/2005	8/16/2005												
Percent Solids		81.9	88.9												
RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
0.50	Cadmium	X		7.8	1	5.7	1								
5.0	Silver	X		317	5	251	5								

Sample Location or Description															
Sample Number															
Sampling Date															
Preparation Date															
Analysis Date															
Percent Solids															
RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
0.50	Cadmium	X													
5.0	Silver	X													

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor



DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68,28817,0001  
 Sampling Date(s) 8/11/2005

Aqueous (ug/L)

Laboratory Accutest - Dayton, NJ  
 Case/Order # J6866  
 Fraction/Method Metals / 3010A / 6010B

Sample Location or Description		FB-1																	
Sample Number		J6866-3																	
Sampling Date		8/11/2005																	
Preparation Date		8/16/2005																	
Analysis Date		8/17/2005																	
RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
4.0	Cadmium	X		4.0	U	1													
10	Silver	X		10	U	1													

Sample Location or Description																			
Sample Number																			
Sampling Date																			
Preparation Date																			
Analysis Date																			
RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
4.0	Cadmium	X																	
10	Silver	X																	

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

**APPENDIX A**

**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY**

Project Number: J6866

Client Name: ATC Associates, Inc.  
AGFA-Peerless

Customer Sample Code	Laboratory Sample ID	Analytical Requirements					
		VOA GC/MS Method	BNA GC/MS Method	GC Method	PCB Method	Metals	Other
		8260	8270C	8021	8082		
BSB-1	J6866-1					X	
FD-1	J6866-2					X	
FB-1	J6866-3					X	

## Report of Analysis

<b>Client Sample ID:</b> BSB-1	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> J6866-1	<b>Date Received:</b> 08/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.9
<b>Project:</b> AGFA-Peerless	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	7.8	0.61	mg/kg	1	08/15/05	08/16/05 JDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	317	6.1	mg/kg	5	08/15/05	08/17/05 ND	SW846 6010B <sup>2</sup>	SW846 3050B <sup>3</sup>

- (1) Instrument QC Batch: MA16167
- (2) Instrument QC Batch: MA16183
- (3) Prep QC Batch: MP31144

RL = Reporting Limit

### Report of Analysis

<b>Client Sample ID:</b> BSB-1	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> J6866-1	<b>Date Received:</b> 08/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.9
<b>Project:</b> AGFA-Peerless	

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.9		%	1	08/15/05	MC	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> FD-1	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> J6866-2	<b>Date Received:</b> 08/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.9
<b>Project:</b> AGFA-Peerless	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	5.7	0.52	mg/kg	1	08/15/05	08/16/05 JDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	251	5.2	mg/kg	5	08/15/05	08/17/05 JDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16172

(2) Prep QC Batch: MP31144

### Report of Analysis

<b>Client Sample ID:</b> FD-1	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> J6866-2	<b>Date Received:</b> 08/12/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.9
<b>Project:</b> AGFA-Peerless	

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	88.9		%	1	08/15/05	MC	ASTM 4643-00

## Report of Analysis

<b>Client Sample ID:</b> FB-1	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> I6866-3	<b>Date Received:</b> 08/12/05
<b>Matrix:</b> AQ - Field Blank Soil	<b>Percent Solids:</b> n/a
<b>Project:</b> AGFA-Peerless	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<4.0	4.0	ug/l	1	08/16/05	08/17/05 IDM	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>
Silver	<10	10	ug/l	1	08/16/05	08/17/05 IDM	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA16172

(2) Prep QC Batch: MP31165



**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE PREPARATION AND ANALYSIS SUMMARY**  
**INORGANIC ANALYSIS**

Project Number: J6866

Client Name: ATC Associates, Inc.  
AGFA-Peerless

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
J6866-1	Soil	Cadmium & Silver	12-Aug-05	17-Aug-05
J6866-2	Soil	Cadmium & Silver	12-Aug-05	17-Aug-05
J6866-3	Field Blank Soil	Cadmium & Silver	12-Aug-05	17-Aug-05



APPENDIX B

# Inorganic Data Validation Summary

ATC

Project Name: Peerless Photo Products  
 Project No.: 68.28817.0001  
 Project Manager: M. McNally  
 Laboratory: Accutest

Case No./SDG: J6866  
 Sampling Date(s): 8/11/2005  
 Reviewed By: M. Traxler  
 Completion Date: 2/21/2006

Compound List:  TAL  Appendix IX  Other \_\_\_\_\_  
 Method:  CLP SOW 3/90  SW-846  Other \_\_\_\_\_  
 Matrix:  soil/solid (mg/Kg)  aqueous (ug/L)

The following table indicates the data validation criteria examined, problems identified, and QA action.

Data Validation Criteria:	accept	FYI	qualify	comments
Holding Times	X			Less than 180 days
Calibration Linearity - Furnace, Hg, and CN				NR
Calibration Verification	X			2-point standard
CRDL Standard	X			50 - 150 % R
Calibration Blanks	X			< RL
Preparation Blanks	X			< RL
Field Blank	X			< RL
ICP Interference Check Sample	X			80 - 120 % R
Laboratory Control Sample	X			80 - 120 % R
Matrix Spike Results		X		75 - 125 % R Ag sample results are high
Laboratory Duplicate Results		X		< 20 RPD Ag sample results are high
ICP Serial Dilution	X			< 10 RPD
Post Digestion Analytical Spike				NR
Method of Standard Addition				NR
Field Duplicate Results	X			< 50 RPD
Sample Result Verification	X			Cadmium and Silver
Other:				

General Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NA - Not applicable  
 NR - Not reviewed

QA Scientist M Traxler Date 2/23/06

**Inorganic Matrix Spike/ Matrix Spike Duplicate Worksheet**

**ATC**

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: J6866

Sample Location or Description	BSB-1	BSB-1	BSB-1
Sample Number	J6866-1	J6866-1D	J6866-1S
Sampling Date	8/11/2005	8/11/2005	8/11/2005
Units	mg/kg	mg/kg	mg/kg

	Spike Amount	Sample Result	MS Result	MSD Result	MS %R	Q	MSD %R	Q	RPD	Q
Cadmium	12.7	7.8	18.6	20.1	84.9		99.7		7.8	
Silver	12.7	317	302	284	-117.9	*	-267.6	*	6.1	

Q - Qualifier  
 \* - Denotes RPD outside criteria

# Inorganic Field Duplicate Precision Worksheet

ATC

Project Name: Peerless Photo Products  
Project Number: 68.28817.0001

Case/SDG Number: J6866

Sample Location or Description	BSB-1	FD-1
Sample Number	J6866-1	J6866-2
Sampling Date	8/11/2005	8/11/2005
Units	mg/kg	mg/kg

	Sample	Field Duplicate	RPD	Q
Cadmium	7.8	5.7	31.1	
Silver	317	251	23.2	

\* - Denotes RPD outside criteria

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J6866  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless

QC Batch ID: MP31144  
 Matrix Type: SOLID

Methods: SW846 6010B  
 Units: mg/kg

Prep Date: 08/15/05

Metal	J6866-1 Original MS	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	7.8	18.6	12.7	84.9 75-125
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron				
Lead	anr			
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Potassium				
Selenium	anr			
Silicon				
Silver	317	302	12.7	-117.9(a) 75-125
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

*MKT  
2/21/06  
Low spike compared to the original sample*

Associated samples MP31144: J6866-1, J6866-2

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

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J6866  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless

QC Batch ID: MP31144  
 Matrix Type: SOLID

Methods: SW846 6010B  
 Units: mg/kg

Prep Date: 08/15/05

Metal	J6866-1 Original MSD	Spike lot MPIRS1	% Rec	MSD RPD	QC Limit	
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	7.8	20.1	12.3	99.7	7.8	20
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron						
Lead	anr					
Magnesium	anr					
Manganese						
Molybdenum						
Nickel	anr					
Palladium						
Potassium						
Selenium	anr					
Silicon						
Silver	317	284	12.3	-267.6(a) 6.1	20	
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	anr					

MT  
2/21/06

Low spike compared to the original sample.

Associated samples MP31144: J6866-1, J6866-2

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

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.



SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: J6866  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless

QC Batch ID: MP31144  
 Matrix Type: SOLID

Methods: SW846 6010B  
 Units: mg/kg

Prep Date: 08/15/05

Metal	BSP Result	Spike lot MPRS1	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	9.6	10	96.0	80-120
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron				
Lead	anr			
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Potassium				
Selenium	anr			
Silicon				
Silver	9.1	10	91.0	80-120
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP31144: J6866-1, J6866-2

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

**DATA USABILITY REPORT**  
**ACCUTEST CASE NO. J12634**

**DATA USABILITY SUMMARY REPORT**

**FOR**

**PEERLESS PHOTO PRODUCTS  
SHORHAM, NEW YORK  
OCTOBER 2005  
BENCHSCALE TESTING**

**REPORTED FEBRUARY 2006**

**ATC PROJECT NO. 68.28817.0001**

**PREPARED BY**

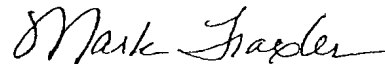
*Mark Traxler*

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**MARK TRAXLER  
SENIOR QUALITY ASSURANCE SCIENTIST**



The following Data Usability Summary Report (DUSR) was conducted by the ATC Associates Inc. Environmental Chemistry and Quality Assurance Department. This report has concluded that the following analytical data, with the use of the stated qualifications, generated in the benchscale sampling event of October 13, 2005 for the Peerless Photo Products Site are acceptable for its intended use in the subject investigation.



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Mark Traxler  
Senior Quality Assurance Scientist

**DATA USABILITY SUMMARY  
TCLP METALS  
PEERLESS PHOTO PRODUCTS SITE  
OCTOBER 2005  
BENCHSCALE TESTING**

**1.0 INTRODUCTION**

This Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. This DUSR has been developed from a full NYSDEC Analytical Services Protocol (ASP) Category B deliverables package.

This DUSR addresses the two (2) Toxicity Characteristic Leaching Procedure (TCLP) metals (cadmium and silver) results from the October 13, 2005 soil sampling event at the Peerless Photo Products site in Shorham, New York. Case J12634 included a total of four (4) soil samples for limited metals (TCLP cadmium and silver) analysis.

The findings offered in this DUSR are based upon a general review of sample data, holding times, initial and continuing calibration verification results, contract required detection limit (CRDL) standard results, blank contamination results, inductively coupled plasma (ICP) interference check sample results, spike sample results, laboratory and field duplicate results, and laboratory control sample results. All samples in this report were analyzed by Accutest Laboratories, Dayton, New Jersey following United States Environmental Protection Agency (EPA) *Test Methods for Evaluating Solid Waste, Update III, 1996 (SW-846) Methods 1311, 3010A and 6010B*. The quality assurance review of the data described was prepared according to EPA's *National Functional Guidelines for Inorganic Data Review, Final*, (EPA 540-R-04-004) dated October 2004, where applicable to SW-846 Methods. Method protocol criteria were also considered as prescribed by SW-846.

The analytical data deliverables for Case J12634 consist of NYSDCE ASP Category B reporting forms and raw data for each analysis, which includes instrument printouts, notebook pages, and chain-of-custody (COC) documents.

The data summary tables list the two (2) metals that were analyzed. Appendix A provides the sample results as reported by the laboratory, along with a copy of the associated COC documentation. The support documentation in Appendix B summarizes the specific issues raised in this review. Analytical problems that were encountered were outlined in the Findings/Qualifiers section.

The following components of the data package were reviewed for completeness:

- Sample chain-of-custody form;
- Case narrative;
- Summary forms and supporting documents;
- Calibration data;
- Instrument and method performance data;
- Data report forms, preparation logs and run logs; and
- Raw analytical data.

The following items of the data package were reviewed for compliance:

- The data package is complete, as defined above;
- The data has been produced and reported in a manner consistent with the requirements of the Quality Assurance Project Plan (QAPP);
- The QAPP-defined quality assurance (QA) and quality control (QC) criteria have been met;
- Instrument calibration requirements have been met for the time frame during which the analyses were completed;
- Initial and Continuing calibration data are presented and documented;
- Data reporting forms are complete; and
- Problems encountered during the analytical process have been reported in the case narrative.

## **2.0 LABORATORY DATA PACKAGE**

The data package that was received from Accutest was paginated, complete and overall was of good quality. Comments on specific QA/QC issues and other requirements are discussed in detail in this report.

The samples were collected, properly preserved, shipped under a chain of custody record, and received at Accutest on the following day (October 14, 2005). All samples were received intact and in good condition at Accutest.

The soil samples were collected and analyzed for TCLP cadmium and silver following SW-846 Method 1311 for TCLP extraction, 3010A for digestion and 6010B for analysis.

### **3.0 FINDINGS/QUALIFIERS**

The following TCLP metals analysis elements were reviewed for compliance:

- Custody documentation
- Holding times
- Initial and continuing calibrations
- Contract Required Detection Limit (CRDL) check sample
- Laboratory preparation blanks and field blanks
- Inductively coupled plasma (ICP) interference check sample
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample recoveries
- ICP serial dilution
- Sample result verification and identification
- Quantitation limits

It is recommended that Case J12634 metals results be used with the following qualifiers:

1. Batch QC samples were used for MS/MSD and serial dilution results. There were no field duplicate, field blank, or site-specific MS/MSD samples associated with this batch of samples.
2. The ICP serial dilution was acceptable for cadmium, but exceeded the control limit of 10% difference (100%) for silver on sample J11988-1. The ICP serial dilution exceeded the control limit of 10% difference (100%, 100%) for cadmium and silver on sample J7989-1A. However, since the original values of cadmium and silver were less than 50 times the Instrument Detection Limit (IDL), the ICP serial dilution for cadmium and silver were acceptable. No qualification of data was deemed necessary due to the ICP serial dilution results.

### **4.0 SUMMARY**

The TCLP metals results are acceptable as qualified. Holding times, initial and continuing calibration verification results, CRDL check sample results, continuing calibration blank results, laboratory preparation blank results, blank sample results, ICP interference check sample results, matrix spike recoveries, laboratory duplicates, field duplicates, laboratory control sample results, and ICP serial dilution results were within acceptance limits. Sample results were properly verified and identified, along with the appropriate quantitation limits.

This review has identified no areas of concern. The data has been qualified accordingly on the data summary table. For specifics relating to this review, see the attached documentation in Appendix B.



## QUALIFIER CODES - METALS

- U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ - The result is an estimated quantity, but the result may be biased high.
- J- - The result is an estimated quantity, but the result may be biased low.
- UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise
- R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be in the sample.

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 10/13/2005

TCLP Leachate (mg/L)

Laboratory Accutest - Dayton, NJ  
 Case/Order # J12634  
 Fraction/Method TCLP Metals / 3010A / 6010B

Sample Location or Description	BSB-2.5	BSB-5	BSB-7.5	BSB-10													
Sample Number	J12634-1	J12634-2	J12634-3	J12634-4													
Sampling Date	10/13/2005	10/13/2005	10/13/2005	10/13/2005													
Preparation Date	10/17/2005	10/17/2005	10/17/2005	10/17/2005													
Analysis Date	10/18/2005	10/18/2005	10/18/2005	10/18/2005													
Percent Solids																	
RL		P F	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF
0.0050	Cadmium	X	0.57 1	0.80 1	0.0050 U 1	0.0061 1											
0.010	Silver	X	0.16 1	0.037 1	0.025 1	0.022 1											

Sample Location or Description																	
Sample Number																	
Sampling Date																	
Preparation Date																	
Analysis Date																	
Percent Solids																	
RL		P F	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF
0.0050	Cadmium	X															
0.010	Silver	X															

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

**APPENDIX A**

**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY**

Project Number: J12634

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Customer Sample Code	Laboratory Sample ID	Analytical Requirements					Metals	Other
		VOA GC/MS Method 8260B	BNA GC/MS Method 8270C	GC Method 8081A	GC Method 8082	GC Method 8151		
BS-2.5	J12634-1						X	
BS-5	J12634-2						X	
BS-705	J12634-3						X	
BS-10	J12634-4						X	

## Report of Analysis

<b>Client Sample ID:</b> BS-2.5	<b>Date Sampled:</b> 10/13/05
<b>Lab Sample ID:</b> J12634-1	<b>Date Received:</b> 10/14/05
<b>Matrix:</b> SO - Solid	<b>Percent Solids:</b> n/a
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis, TCLP Leachate SW846 1311**

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	0.57	D006	1.0	0.0050	mg/l	1	10/17/05	10/18/05 JDM	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>
Silver	0.16	D011	5.0	0.010	mg/l	1	10/17/05	10/18/05 JDM	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA16492

(2) Prep QC Batch: MP31948

**Report of Analysis**

<b>Client Sample ID:</b> BS-5	<b>Date Sampled:</b> 10/13/05
<b>Lab Sample ID:</b> J12634-2	<b>Date Received:</b> 10/14/05
<b>Matrix:</b> SO - Solid	<b>Percent Solids:</b> n/a
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis, TCLP Leachate SW846 1311**

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	0.80	D006	1.0	0.0050	mg/l	1	10/17/05	10/18/05 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>
Silver	0.037	D011	5.0	0.010	mg/l	1	10/17/05	10/18/05 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA16488

(2) Prep QC Batch: MP31880

## Report of Analysis

<b>Client Sample ID:</b> BS-7.5 <b>Lab Sample ID:</b> J12634-3 <b>Matrix:</b> SO - Solid  <b>Project:</b> AGFA-Peerless, Shorham, NY	<b>Date Sampled:</b> 10/13/05 <b>Date Received:</b> 10/14/05 <b>Percent Solids:</b> n/a
--	---

**Metals Analysis, TCLP Leachate SW846 1311**

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.0050	D006	1.0	0.0050	mg/l	1	10/17/05	10/18/05 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>
Silver	0.025	D011	5.0	0.010	mg/l	1	10/17/05	10/18/05 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA16488  
 (2) Prep QC Batch: MP31880

## Report of Analysis

<b>Client Sample ID:</b> BS-10		<b>Date Sampled:</b> 10/13/05
<b>Lab Sample ID:</b> J12634-4		<b>Date Received:</b> 10/14/05
<b>Matrix:</b> SO - Solid		<b>Percent Solids:</b> n/a
<b>Project:</b> AGFA-Peerless, Shorham, NY		

**Metals Analysis, TCLP Leachate SW846 1311**

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	0.0061	D006	1.0	0.0050	mg/l	1	10/17/05	10/18/05 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>
Silver	0.022	D011	5.0	0.010	mg/l	1	10/17/05	10/18/05 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA16488

(2) Prep QC Batch: MP31880

RL = Reporting Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)



**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE PREPARATION AND ANALYSIS SUMMARY**  
**INORGANIC ANALYSIS**

Project Number: J12634

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
J12634-1	Leachate	TCLP Metals	13-Oct-05	14-Oct-05
J12634-2	Leachate	TCLP Metals	13-Oct-05	14-Oct-05
J12634-3	Leachate	TCLP Metals	13-Oct-05	14-Oct-05
J12634-4	Leachate	TCLP Metals	13-Oct-05	14-Oct-05



**APPENDIX B**

# Inorganic Data Validation Summary

ATC

Project Name: Peerless Photo Products  
 Project No.: 68.28817.0001  
 Project Manager: M. McNally  
 Laboratory: Accutest

Case No./SDG: J12634  
 Sampling Date(s): 10/13/2005  
 Reviewed By: M. Traxler  
 Completion Date: 2/20/2006

Compound List:  TAL  Appendix IX  Other TCLP  
 Method:  CLP SOW 3/90  SW-846  Other mg/L  
 Matrix:  soil/solid (mg/Kg)  aqueous (ug/L)

The following table indicates the data validation criteria examined, problems identified, and QA action.

Data Validation Criteria:	accept	FYI	qualify	comments
Holding Times	X			Less than 180 days
Calibration Linearity - Furnace, Hg, and CN				NR
Calibration Verification	X			2-point standard
CRDL Standard	X			50 - 150 % R
Calibration Blanks	X			< RL
Preparation Blanks	X			< RL
Field Blank		X		< RL No FB in batch
ICP Interference Check Sample	X			80 - 120 % R
Laboratory Control Sample	X			80 - 120 % R
Matrix Spike Results	X			75 - 125 % R Batch QC
Laboratory Duplicate Results	X			< 20 RPD
ICP Serial Dilution	X			< 10 RPD
Post Digestion Analytical Spike				NR
Method of Standard Addition				NR
Field Duplicate Results		X		< 50 RPD No FD in batch
Sample Result Verification	X			Cadmium and Silver
Other:				

General Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NA - Not applicable  
 NR - Not reviewed

QA Scientist M. Traxler Date 2/20/06

**Inorganic Matrix Spike/ Matrix Spike Duplicate Worksheet**

**ATC**

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: J12634

Sample Location or Description	Batch QC	Batch QC	Batch QC
Sample Number	J11988-1	J11988-1MS	J11988-1MSD
Sampling Date	10/11/2005	10/11/2005	10/11/2005
Units	mg/L	mg/L	mg/L

	Spike Amount	Sample Result	MS Result	MSD Result	MS %R	Q	MSD %R	Q	RPD	Q
Cadmium	0.050	0.0000	0.054	0.050	108.0		100.0		7.7	
Silver	0.050	0.0017	0.061	0.060	118.6		116.6		1.7	

Q - Qualifier  
 \* - Denotes RPD outside criteria



## SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: ATC Associates, Inc.

Job No J12634

Site: AGFA-Peerless, Shorham, NY

Report Date 10/20/2005 6:00:51 P

4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 10/13/2005 and were received at Accutest on 10/14/2005 properly preserved, at 4.6 Deg. C and intact. These Samples received an Accutest job number of J12634. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Metals By Method SW846 6010B

Matrix: LEACHATE

Batch ID: MP31880

- 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) J11988-1MS, J11988-1MSD, J11988-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Silver are outside control limits for sample MP31880-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: LEACHATE

Batch ID: MP31948

- 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) J7989-1AMS, J7989-1AMSD, J7989-1ASDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Cadmium, Silver are outside control limits for sample MP31948-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J12634).

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J12634  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31880  
 Matrix Type: LEACHATE

Methods: SW846 6010B  
 Units: mg/l

Prep Date: 10/11/05

Metal	J11988-1 Original MS	Spikelot MPITCLP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	0.0	0.054	0.050	108.0 75-125
Chromium	anr			
Cobalt				
Copper				
Iron				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Palladium				
Potassium				
Selenium	anr			
Silicon				
Silver	0.0017	0.061	0.050	118.6 75-125
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP31880: J12634-2, J12634-3, J12634-4

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: J12634  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31880  
 Matrix Type: LEACHATE

Methods: SW846 6010B  
 Units: mg/l

Prep Date: 10/11/05

Metal	J11988-1 Original MSD	Spikelot MPITCLP1 % Rec	MSD RPD	QC Limit		
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	0.0	0.050	0.050	100.0	7.7	20
Chromium	anr					
Cobalt						
Copper						
Iron						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Palladium						
Potassium						
Selenium	anr					
Silicon						
Silver	0.0017	0.060	0.050	116.6	1.7	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP31880: J12634-2, J12634-3, J12634-4

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



SERIAL DILUTION RESULTS SUMMARY

Login Number: J12634  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31880  
 Matrix Type: LEACHATE

Methods: SWB46 6010B  
 Units: ug/l

Prep Date: 10/11/05

Metal	J11988-1 Original	SDL 1:5	RPD	QC Limits
-------	----------------------	---------	-----	--------------

Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	0.00	0.00	NC	0-10
Chromium	anr			
Cobalt				
Copper				
Iron				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Palladium				
Potassium				
Selenium	anr			
Silicon				
Silver	1.70	0.00	100.0(a)	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

MT 2/20/06  
 < 50x IDL

Associated samples MP31880: J12634-2, J12634-3, J12634-4

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SERIAL DILUTION RESULTS SUMMARY

Login Number: J12634  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31948  
 Matrix Type: LEACHATE

Methods: SW846 6010B  
 Units: ug/l

Prep Date: 10/17/05

Metal	J7989-1A Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	0.704	0.00	100.0(a)	0-10 MT 2/20/06
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	anr			
Magnesium				
Manganese				
Nickel				
Potassium				
Selenium	anr			
Silver	1.16	0.00	100.0(a)	0-10 MT 2/20/06 < 50x IDL
Sodium				
Thallium				
Vanadium				
Zinc				

Associated samples MP31948: J12634-1

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

**DATA USABILITY REPORT**

**ACCUTEST CASE NO. J19888**

**DATA USABILITY SUMMARY REPORT**

**FOR**

**PEERLESS PHOTO PRODUCTS  
SHORHAM, NEW YORK  
JANUARY 2006  
BENCHSCALE TESTING**

**REPORTED FEBRUARY 2006**

**ATC PROJECT NO. 68.28817.0001**

**PREPARED BY**

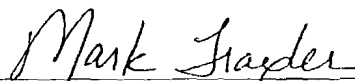
*Mark Traxler*

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**MARK TRAXLER  
SENIOR QUALITY ASSURANCE SCIENTIST**



The following Data Usability Summary Report (DUSR) was conducted by the ATC Associates Inc. Environmental Chemistry and Quality Assurance Department. This report has concluded that the following analytical data, with the use of the stated qualifications, generated in the benchscale sampling event of January 9, 2006 for the Peerless Photo Products Site are acceptable for its intended use in the subject investigation.



Mark Traxler  
Mark Traxler  
Senior Quality Assurance Scientist

**DATA USABILITY SUMMARY  
TCLP METALS  
PEERLESS PHOTO PRODUCTS SITE  
JANUARY 2006  
BENCHSCALE TESTING**

**1.0 INTRODUCTION**

This Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. This DUSR has been developed from a full NYSDEC Analytical Services Protocol (ASP) Category B deliverables package.

This DUSR addresses the two (2) Toxicity Characteristic Leaching Procedure (TCLP) metals (cadmium and silver) results from the January 9, 2006 soil sampling event at the Peerless Photo Products site in Shorham, New York. Case J19888 included a total of one (1) soil sample for limited metals (TCLP cadmium and silver) analysis.

The findings offered in this DUSR are based upon a general review of sample data, holding times, initial and continuing calibration verification results, contract required detection limit (CRDL) standard results, blank contamination results, inductively coupled plasma (ICP) interference check sample results, spike sample results, laboratory and field duplicate results, and laboratory control sample results. All samples in this report were analyzed by Accutest Laboratories, Dayton, New Jersey following United States Environmental Protection Agency (EPA) *Test Methods for Evaluating Solid Waste*, Update III, 1996 (SW-846) Methods 1311, 3010A and 6010B. The quality assurance review of the data described was prepared according to EPA's *National Functional Guidelines for Inorganic Data Review, Final*, (EPA 540-R-04-004) dated October 2004, where applicable to SW-846 Methods. Method protocol criteria were also considered as prescribed by SW-846.

The analytical data deliverables for Case J19888 consist of NYSDCE ASP Category B reporting forms and raw data for each analysis, which includes instrument printouts, notebook pages, and chain-of-custody (COC) documents.

The data summary tables list the two (2) metals that were analyzed. Appendix A provides the sample results as reported by the laboratory, along with a copy of the associated COC documentation. The support documentation in Appendix B summarizes the specific issues raised in this review. Analytical problems that were encountered were outlined in the Findings/Qualifiers section.

The following components of the data package were reviewed for completeness:

- Sample chain-of-custody form;
- Case narrative;
- Summary forms and supporting documents;
- Calibration data;
- Instrument and method performance data;
- Data report forms, preparation logs and run logs; and
- Raw analytical data.

The following items of the data package were reviewed for compliance:

- The data package is complete, as defined above;
- The data has been produced and reported in a manner consistent with the requirements of the Quality Assurance Project Plan (QAPP);
- The QAPP-defined quality assurance (QA) and quality control (QC) criteria have been met;
- Instrument calibration requirements have been met for the time frame during which the analyses were completed;
- Initial and Continuing calibration data are presented and documented;
- Data reporting forms are complete; and
- Problems encountered during the analytical process have been reported in the case narrative.

## **2.0 LABORATORY DATA PACKAGE**

The data package that was received from Accutest was paginated, complete and overall was of good quality. Comments on specific QA/QC issues and other requirements are discussed in detail in this report.

The samples were collected, properly preserved, shipped under a chain of custody record, and received at Accutest on the same day (January 9, 2006). All samples were received intact and in good condition at Accutest.

The soil samples were collected and analyzed for TCLP cadmium and silver following SW-846 Method 1311 for TCLP extraction, 3010A for digestion and 6010B for analysis.

### **3.0 FINDINGS/QUALIFIERS**

The following TCLP metals analysis elements were reviewed for compliance:

- Custody documentation
- Holding times
- Initial and continuing calibrations
- Contract Required Detection Limit (CRDL) check sample
- Laboratory preparation blanks and field blanks
- Inductively coupled plasma (ICP) interference check sample
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample recoveries
- ICP serial dilution
- Sample result verification and identification
- Quantitation limits

It is recommended that Case J19888 metals results be used with the following qualifiers:

1. Batch QC samples were used for MS/MSD and serial dilution results. There were no field duplicate, field blank, or site-specific MS/MSD samples associated with this batch of samples.

### **4.0 SUMMARY**

The TCLP metals results are acceptable as qualified. Holding times, initial and continuing calibration verification results, CRDL check sample results, continuing calibration blank results, laboratory preparation blank results, blank sample results, ICP interference check sample results, matrix spike recoveries, laboratory duplicates, field duplicates, laboratory control sample results, and ICP serial dilution results were within acceptance limits. Sample results were properly verified and identified, along with the appropriate quantitation limits.

This review has identified no areas of concern. The data has been qualified accordingly on the data summary table. For specifics relating to this review, see the attached documentation in Appendix B.



## QUALIFIER CODES - METALS

- U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ - The result is an estimated quantity, but the result may be biased high.
- J- - The result is an estimated quantity, but the result may be biased low.
- UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise
- R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be in the sample.

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 1/9/2006

TCLP Leachate (mg/L)

Laboratory

Accutest - Dayton, NJ

Case/Order #

J19888

Fraction/Method

TCLP Metals / 3010A / 6010B

Sample Location or Description		BSB-3A (BUCKET 2)																	
Sample Number		J19888-1																	
Sampling Date		1/9/2006																	
Preparation Date		1/12/2006																	
Analysis Date		1/12/2006																	
Percent Solids																			
RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
0.0050	Cadmium	X		0.88	1														
0.010	Silver	X		0.44	1														

Sample Location or Description																			
Sample Number																			
Sampling Date																			
Preparation Date																			
Analysis Date																			
Percent Solids																			
RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
0.0050	Cadmium	X																	
0.010	Silver	X																	

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

**APPENDIX A**

**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY**

Project Number: J19888

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Customer Sample Code	Laboratory Sample ID	Analytical Requirements					Metals	Other
		VOA GC/MS Method 8260	BNA GC/MS Method 8270C	Pest GC Method 8081	PCB GC Method 8082	GC Method 8015		
BSB-3A (BUCKET 2)	J19888-1						X	CN

**Report of Analysis**

<b>Client Sample ID:</b> BSB-3A (BUCKET 2)	<b>Date Sampled:</b> 01/09/06
<b>Lab Sample ID:</b> J19888-1	<b>Date Received:</b> 01/09/06
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> n/a
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis, TCLP Leachate SW846 1311**

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	0.88	D006	1.0	0.0050	mg/l	1	01/12/06	01/12/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>
Silver	0.44	D011	5.0	0.010	mg/l	1	01/12/06	01/12/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA16913

(2) Prep QC Batch: MP32974

**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE PREPARATION AND ANALYSIS SUMMARY**  
**INORGANIC ANALYSIS**

Project No: J19888

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Laboratory			Date Rec'd	Date
Sample ID	Matrix	Metals Requested	at Lab	Analyzed
J19888-1	Leachate	Tclp Metals	09-Jan-06	12-Jan-06



**APPENDIX B**



# Inorganic Data Validation Summary

ATC

Project Name: Peerless Photo Products  
 Project No.: 68.28817.0001  
 Project Manager: M. McNally  
 Laboratory: Accutest

Case No./SDG: J19888  
 Sampling Date(s): 1/9/2006  
 Reviewed By: M. Traxler  
 Completion Date: 2/22/2006

Compound List:  TAL  Appendix IX  Other TCLP  
 Method:  CLP SOW 3/90  SW-846  Other mg/L  
 Matrix:  soil/solid (mg/Kg)  aqueous (ug/L)

The following table indicates the data validation criteria examined, problems identified, and QA action.

Data Validation Criteria: accept FYI qualify comments

Data Validation Criteria:	accept	FYI	qualify	comments
Holding Times	X			Less than 180 days
Calibration Linearity - Furnace, Hg, and CN				NR
Calibration Verification	X			2-point standard
CRDL Standard	X			50 - 150 % R
Calibration Blanks	X			< RL
Preparation Blanks	X			< RL
Field Blank		X		< RL No FB in batch
ICP Interference Check Sample	X			80 - 120 % R
Laboratory Control Sample	X			80 - 120 % R
Matrix Spike Results	X			75 - 125 % R Batch QC
Laboratory Duplicate Results	X			< 20 RPD
ICP Serial Dilution	X			< 10 RPD
Post Digestion Analytical Spike				NR
Method of Standard Addition				NR
Field Duplicate Results		X		< 50 RPD No FD in batch
Sample Result Verification	X			Cadmium and Silver
Other:				

General Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NA - Not applicable  
 NR - Not reviewed

QA Scientist M Traxler Date 2/21/06

# Inorganic Matrix Spike/ Matrix Spike Duplicate Worksheet

ATC

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: J19888

Sample Location or Description	Batch QC	Batch QC	Batch QC
Sample Number	J19691-1	J19691-1MS	J19691-1MSD
Sampling Date	1/12/2006	1/12/2006	1/12/2006
Units	mg/L	mg/L	mg/L

Spike Amount      Sample Result      MS Result      MSD Result

	Spike Amount	Sample Result	MS Result	MSD Result	MS %R	Q	MSD %R	Q	RPD	Q
Cadmium	0.050	0.000	0.049	0.047	98.0		94.0		4.2	
Silver	0.050	0.000	0.053	0.053	106.0		106.0		0.0	

Q - Qualifier

\* - Denotes RPD outside criteria



## SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: ATC Associates, Inc.

Job No J19888

Site: AGFA-Peerless, Shorham, NY

Report Date 1/13/2006 5:49:18 PM

1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 01/09/2006 and were received at Accutest on 01/09/2006 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of J19888. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Metals By Method SW846 6010B

Matrix: LEACHATE

Batch ID: MP32974

- 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) J19691-1AMS, J19691-1AMSD, J19691-1ASDL were used as the QC samples for metals.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J19888).

**DATA USABILITY REPORT**

**ACCUTEST CASE NO. J11509**

**DATA USABILITY SUMMARY REPORT**

**FOR**

**PEERLESS PHOTO PRODUCTS  
SHORHAM, NEW YORK  
OCTOBER 2005**

**REPORTED FEBRUARY 2006**

**ATC PROJECT NO. 68.28817.0001**

**PREPARED BY**

*Mark Traxler*

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**MARK TRAXLER  
SENIOR QUALITY ASSURANCE SCIENTIST**



920 Germantown Pike, Suite 200 ▪ Plymouth Meeting, PA 19462

The following Data Usability Summary Report (DUSR) was conducted by the ATC Associates Inc. Environmental Chemistry and Quality Assurance Department. This report has concluded that the following analytical data, with the use of the stated qualifications, generated in the sampling event of October 3, 2005 for the Peerless Photo Products Site are acceptable for its intended use in the subject investigation.



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Mark Traxler  
Senior Quality Assurance Scientist

**DATA USABILITY SUMMARY  
METALS  
PEERLESS PHOTO PRODUCTS SITE  
OCTOBER 2005**

**1.0 INTRODUCTION**

This Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. This DUSR has been developed from a full NYSDEC Analytical Services Protocol (ASP) Category B deliverables package.

This DUSR addresses the two (2) metals (cadmium and silver) results from the October 3, 2005 soil sampling event at the Peerless Photo Products site in Shorham, New York. Case J11509 included a total of six (6) soil samples, including one (1) set of field duplicate samples, plus one (1) Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair for limited metals (cadmium and silver) analysis. Case J11509 also included one (1) aqueous field blank sample for limited metals (cadmium and silver) analysis.

The findings offered in this DUSR are based upon a general review of sample data, holding times, initial and continuing calibration verification results, contract required detection limit (CRDL) standard results, blank contamination results, inductively coupled plasma (ICP) interference check sample results, spike sample results, laboratory and field duplicate results, and laboratory control sample results. All samples in this report were analyzed by Accutest Laboratories, Dayton, New Jersey following United States Environmental Protection Agency (EPA) *Test Methods for Evaluating Solid Waste*, Update III, 1996 (SW-846) Methods 3050B (and 3010A for the aqueous field blank sample) and 6010B. The quality assurance review of the data described was prepared according to EPA's *National Functional Guidelines for Inorganic Data Review, Final*, (EPA 540-R-04-004) dated October 2004, where applicable to SW-846 Methods. Method protocol criteria were also considered as prescribed by SW-846.

The analytical data deliverables for Case J11509 consist of NYSDCE ASP Category B reporting forms and raw data for each analysis, which includes instrument printouts, notebook pages, and chain-of-custody (COC) documents.

The data summary tables list the two (2) metals that were analyzed. Appendix A provides the sample results as reported by the laboratory, along with a copy of the associated COC documentation. The support documentation in Appendix B summarizes the specific issues raised in this review. Analytical problems that were encountered were outlined in the Findings/Qualifiers section.

The following components of the data package were reviewed for completeness:

- Sample chain-of-custody form;
- Case narrative;
- Summary forms and supporting documents;
- Calibration data;
- Instrument and method performance data;
- Data report forms, preparation logs and run logs; and
- Raw analytical data.

The following items of the data package were reviewed for compliance:

- The data package is complete, as defined above;
- The data has been produced and reported in a manner consistent with the requirements of the Quality Assurance Project Plan (QAPP);
- The QAPP-defined quality assurance (QA) and quality control (QC) criteria have been met;
- Instrument calibration requirements have been met for the time frame during which the analyses were completed;
- Initial and Continuing calibration data are presented and documented;
- Data reporting forms are complete; and
- Problems encountered during the analytical process have been reported in the case narrative.

## **2.0 LABORATORY DATA PACKAGE**

The data package that was received from Accutest was paginated, complete and overall was of good quality. Comments on specific QA/QC issues and other requirements are discussed in detail in this report.

The samples were collected, properly preserved, shipped under a chain of custody record, and received at Accutest on the same day. All samples were received intact and in good condition at Accutest.

The soil samples were collected and analyzed for total cadmium and silver following SW-846 Methods 3050B for digestion and 6010B for analysis. The aqueous cadmium and silver was analyzed following SW-846 Method 3010A for digestion and 6010B for analysis.



### **3.0 FINDINGS/QUALIFIERS**

The following metals analysis elements were reviewed for compliance:

- Custody documentation
- Holding times
- Initial and continuing calibrations
- Contract Required Detection Limit (CRDL) check sample
- Laboratory preparation blanks and field blanks
- Inductively coupled plasma (ICP) interference check sample
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample recoveries
- ICP serial dilution
- Sample result verification and identification
- Quantitation limits

It is recommended that Case J11509 metals results be used with no qualifiers.

### **4.0 SUMMARY**

The metals results are acceptable as qualified. Holding times, initial and continuing calibration verification results, CRDL check sample results, continuing calibration blank results, laboratory preparation blank results, blank sample results, ICP interference check sample results, matrix spike recoveries, laboratory duplicates, field duplicates, laboratory control sample results, and ICP serial dilution results were within acceptance limits. Sample results were properly verified and identified, along with the appropriate quantitation limits.

This review has identified no areas of concern. The data has been qualified accordingly on the data summary table. For specifics relating to this review, see the attached documentation in Appendix B.

## QUALIFIER CODES - METALS

- U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ - The result is an estimated quantity, but the result may be biased high.
- J- - The result is an estimated quantity, but the result may be biased low.
- UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise
- R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be in the sample.

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 10/3/2005

Soil (mg/kg)

Laboratory Accutest - Dayton, NJ  
 Case/Order # J11509  
 Fraction/Method Metals / 3050B / 6010B

Sample Location or Description	APC13WSW1-N	APC13WSW2-S	APC13WSW3-E	APC13WSW3-EMS	APC13WSW3-EMSD	DUP100305	APC13WSW4-W	APC13IW-B		
Sample Number	J11509-1	J11509-2	J11509-3	J11509-4	J11509-5	J11509-6	J11509-7	J11509-8		
Sampling Date	10/3/2005	10/3/2005	10/3/2005	10/3/2005	10/3/2005	10/3/2005	10/3/2005	10/3/2005		
Preparation Date	10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005		
Analysis Date	10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005		
Percent Solids	91.4	91.8	97.8	97.8	97.8	96.1	96.8	95.4		

RL	P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF																
0.50	Cadmium	X		U	1	2.4	1		U	1	88.5%	1	87.5%	1	2.0	1		U	1	1.6	1													
1.0	Silver	X	133	2	394	5	3.2	1			77.3%	5	87.5%	5	223	5	11.1	1		310	5													

Sample Location or Description																					
Sample Number																					
Sampling Date																					
Preparation Date																					
Analysis Date																					
Percent Solids																					

RL	P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF			
0.50	Cadmium	X																			
1.0	Silver	X																			

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 10/3/2005

Aqueous (ug/L)

Laboratory Accutest - Dayton, NJ  
 Case/Order # J11509  
 Fraction/Method Metals / 3010A / 6010B

Sample Location or Description		FB100305															
Sample Number		J11509-9															
Sampling Date		10/3/2005															
Preparation Date		10/5/2005															
Analysis Date		10/5/2005															
RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
4.0	Cadmium	X		U	1												
10	Silver	X		U	1												

Sample Location or Description																	
Sample Number																	
Sampling Date																	
Preparation Date																	
Analysis Date																	
RL		P	F	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF	Q	DF
4.0	Cadmium	X															
10	Silver	X															

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

APPENDIX A

**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY**

Project Number: J11509

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Customer Sample Code	Laboratory Sample ID	Analytical Requirements						Metals	Other  Cyanide
		VOA GC/MS Method	BNA GC/MS Method	GC Method	GC Method	GC Method			
		8260B	8270C	8081A	8082	8151			
APC13IWSW1-N	J11509-1							X	
APC13IWSW2-S	J11509-2							X	
APC13IWSW3-E	J11509-3							X	
DUP100305	J11509-6							X	
APC13IWSW4-W	J11509-7							X	
APC13IW-B	J11509-8							X	
FB100305	J11509-9							X	

# Report of Analysis

<b>Client Sample ID:</b> APC13IWSW1-N	<b>Date Sampled:</b> 10/03/05
<b>Lab Sample ID:</b> J11509-1	<b>Date Received:</b> 10/04/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.4
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.55	0.55	mg/kg	1	10/05/05	10/05/05 IDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	133	2.2	mg/kg	2	10/05/05	10/05/05 IDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16428

(2) Prep QC Batch: MP31798

# Report of Analysis

<b>Client Sample ID:</b> APC13IWSW1-N	<b>Date Sampled:</b> 10/03/05
<b>Lab Sample ID:</b> J11509-1	<b>Date Received:</b> 10/04/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.4
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	91.4		%	1	10/05/05	AK	EPA 160.3 M



## Report of Analysis

<b>Client Sample ID:</b> APC13IWSW2-S	<b>Date Sampled:</b> 10/03/05
<b>Lab Sample ID:</b> J11509-2	<b>Date Received:</b> 10/04/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.8
<b>Project:</b> AGFA-Peerless, Shorham, NY	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	2.4	0.56	mg/kg	1	10/05/05	10/05/05 JDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	394	5.6	mg/kg	5	10/05/05	10/05/05 JDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16428

(2) Prep QC Batch: MP31798

### Report of Analysis

**Client Sample ID:** APC13IWSW2-S

**Lab Sample ID:** J11509-2

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 10/03/05

**Date Received:** 10/04/05

**Percent Solids:** 91.8

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	91.8		%	1	10/05/05	AK	EPA 160.3 M

## Report of Analysis

<b>Client Sample ID:</b> APC13IWSW3-E	<b>Date Sampled:</b> 10/03/05
<b>Lab Sample ID:</b> J11509-3	<b>Date Received:</b> 10/04/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 97.8
<b>Project:</b> AGFA-Peerless, Shorham, NY	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.53	0.53	mg/kg	1	10/05/05	10/05/05 JDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	3.2	1.1	mg/kg	1	10/05/05	10/05/05 JDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16428

(2) Prep QC Batch: MP31798

# Report of Analysis

<b>Client Sample ID:</b> APC13IWSW3-E	<b>Date Sampled:</b> 10/03/05
<b>Lab Sample ID:</b> J11509-3	<b>Date Received:</b> 10/04/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 97.8
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.8		%	1	10/05/05	AK	EPA 160.3 M

## Report of Analysis

<b>Client Sample ID:</b> DUP100305	<b>Date Sampled:</b> 10/03/05
<b>Lab Sample ID:</b> J11509-6	<b>Date Received:</b> 10/04/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.1
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	2.0	0.53	mg/kg	1	10/05/05	10/05/05 IDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	223	5.3	mg/kg	5	10/05/05	10/05/05 IDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16428

(2) Prep QC Batch: MP31798

### Report of Analysis

**Client Sample ID:** DUP100305

**Lab Sample ID:** J11509-6

**Matrix:** SO - Soil

**Project:** AGFA-Peerless, Shorham, NY

**Date Sampled:** 10/03/05

**Date Received:** 10/04/05

**Percent Solids:** 96.1

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.1		%	1	10/05/05	AK	EPA 160.3 M

### Report of Analysis

<b>Client Sample ID:</b> APC13IWSW4-W	<b>Date Sampled:</b> 10/03/05
<b>Lab Sample ID:</b> J11509-7	<b>Date Received:</b> 10/04/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.8
<b>Project:</b> AGFA-Peerless, Shorham, NY	

#### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<0.51	0.51	mg/kg	1	10/05/05	10/05/05 JDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	11.1	1.0	mg/kg	1	10/05/05	10/05/05 JDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16428  
(2) Prep QC Batch: MP31798

### Report of Analysis

<b>Client Sample ID:</b> APC13IWSW4-W	<b>Date Sampled:</b> 10/03/05
<b>Lab Sample ID:</b> J11509-7	<b>Date Received:</b> 10/04/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.8
<b>Project:</b> AGFA-Peerless, Shorham, NY	

#### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.8		%	1	10/05/05	AK	EPA 160.3 M



## Report of Analysis

<b>Client Sample ID:</b> APC13IW-B		<b>Date Sampled:</b> 10/03/05
<b>Lab Sample ID:</b> J11509-8		<b>Date Received:</b> 10/04/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 95.4
<b>Project:</b> AGFA-Peerless, Shorham, NY		

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	1.6	0.53	mg/kg	1	10/05/05	10/05/05 JDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	310	5.3	mg/kg	5	10/05/05	10/05/05 JDM	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16428  
 (2) Prep QC Batch: MP31798

# Report of Analysis

<b>Client Sample ID:</b> APC13IW-B	<b>Date Sampled:</b> 10/03/05
<b>Lab Sample ID:</b> J11509-8	<b>Date Received:</b> 10/04/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 95.4
<b>Project:</b> AGFA-Peerless, Shorham, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	95.4		%	1	10/05/05	AK	EPA 160.3 M

## Report of Analysis

<b>Client Sample ID:</b> FB100305	<b>Date Sampled:</b> 10/03/05
<b>Lab Sample ID:</b> J11509-9	<b>Date Received:</b> 10/04/05
<b>Matrix:</b> AQ - Field Blank Soil	<b>Percent Solids:</b> n/a
<b>Project:</b> AGFA-Peerless, Shorham, NY	

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	<4.0	4.0	ug/l	1	10/05/05	10/05/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>
Silver	<10	10	ug/l	1	10/05/05	10/05/05 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA16426  
 (2) Prep QC Batch: MP31804

**ACCUTEST LABORATORIES**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**SAMPLE PREPARATION AND ANALYSIS SUMMARY**  
**INORGANIC ANALYSIS**

Project Number: J11509

Client Name: ATC Associates, Inc.  
AGFA-Peerless, Shorham, NY

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
J11509-1	Soil	T.A.L Metals	3-Oct-05	4-Oct-05
J11509-2	Soil	T.A.L Metals	3-Oct-05	4-Oct-05
J11509-3	Soil	T.A.L Metals	3-Oct-05	4-Oct-05
J11509-6	Soil	T.A.L Metals	3-Oct-05	4-Oct-05
J11509-7	Soil	T.A.L Metals	3-Oct-05	4-Oct-05
J11509-8	Soil	T.A.L Metals	3-Oct-05	4-Oct-05
J11509-9	Field Blank Soil	T.A.L Metals	3-Oct-05	4-Oct-05



**APPENDIX B**

# Inorganic Data Validation Summary

ATC

Project Name: Peerless Photo Products  
 Project No.: 68.28817.0001  
 Project Manager: M. McNally  
 Laboratory: Accutest

Case No./SDG: J11509  
 Sampling Date(s): 10/3/2005  
 Reviewed By: M. Traxler  
 Completion Date: 2/20/2006

Compound List:  TAL  Appendix IX  Other \_\_\_\_\_  
 Method:  CLP SOW 3/90  SW-846  Other \_\_\_\_\_  
 Matrix:  soil/solid (mg/Kg)  aqueous (ug/L)

The following table indicates the data validation criteria examined, problems identified, and QA action.

Data Validation Criteria:	accept	FYI	qualify	comments
Holding Times	X			Less than 180 days
Calibration Linearity - Furnace, Hg, and CN				NR
Calibration Verification	X			2-point standard
CRDL Standard	X			50 - 150 % R
Calibration Blanks	X			< RL
Preparation Blanks	X			< RL
Field Blank	X			< RL
ICP Interference Check Sample	X			80 - 120 % R
Laboratory Control Sample	X			80 - 120 % R
Matrix Spike Results	X			75 - 125 % R
Laboratory Duplicate Results	X			< 20 RPD
ICP Serial Dilution	X			< 10 RPD
Post Digestion Analytical Spike				NR
Method of Standard Addition				NR
Field Duplicate Results	X			< 50 RPD
Sample Result Verification	X			Cadmium and Silver
Other:				

General Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NA - Not applicable  
 NR - Not reviewed

QA Scientist M. Traxler Date 2/28/06

# Inorganic Matrix Spike/ Matrix Spike Duplicate Worksheet

ATC

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: J11509

Sample Location or Description
Sample Number
Sampling Date
Units

APC13IWSW3-E	APC13IWSW3-EMS	APC13IWSW3-EMSD
J11509-3	J11509-4	J11509-5
10/3/2005	10/3/2005	10/3/2005
mg/kg	mg/kg	mg/kg

	Spike Amount	Sample Result	MS Result	MSD Result	MS %R	Q	MSD %R	Q	RPD
Cadmium	9.8	0.0	8.7	8.6	88.5		87.5		1.2
Silver	9.83	3.2	10.8	11.8	77.3		88		8.8

Q - Qualifier

\* - Denotes RPD outside criteria



# Inorganic Field Duplicate Precision Worksheet ATC

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: J11509

Sample Location or Description	APC13IW-B	DUP100305
Sample Number	J11509-8	J11509-6
Sampling Date	10/3/2005	10/3/2005
Units	mg/kg	mg/kg

	Sample	Field Duplicate	RPD	Q
Cadmium	1.6	2.0	22.2	
Silver	310	223	32.6	

\* - Denotes RPD outside criteria



## SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: ATC Associates, Inc.

Job No J11509

Site: AGFA-Peerless, Shorham, NY

Report Date 10/10/2005 5:03:45 P

6 Sample(s), 0 Trip Blank(s) and 1 Field Blank(s) were collected on 10/03/2005 and were received at Accutest on 10/04/2005 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of J11509. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP31804

- 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.

Matrix: SO

Batch ID: MP31798

- 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) J11509-3MS, J11509-3MSD, J11509-3SDL were used as the QC samples for metals.

### Wet Chemistry By Method EPA 160.3 M

Matrix: SO

Batch ID: GN83479

- There is no applicable data to evaluate for EPA 160.3 M.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(J11509).

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J11509  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31798  
 Matrix Type: SOLID

Methods: SW846 6010B  
 Units: mg/kg

Prep Date: 10/06/05

Metal	J11509-3 Original MS	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	0.0	8.7	9.8	88.5 75-125
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Potassium				
Selenium	anr			
Silicon				
Silver	3.2	10.8	9.83	77.3 75-125
Sodium				
Thallium				
Tin				
Vanadium				
Zinc	anr			

Associated samples MP31798: J11509-1, J11509-2, J11509-3, J11509-6, J11509-7, J11509-8

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: J11509  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31798  
 Matrix Type: SOLID

Methods: SW846 6010B  
 Units: mg/kg

Prep Date: 10/06/05

Metal	J11509-3 Original MSD	Spikelot MPIRS1	% Rec	MSD RPD	QC Limit
Aluminum					
Antimony					
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Cadmium	0.0	8.6	9.8	87.5	1.2 20
Calcium					
Chromium	anr				
Cobalt					
Copper					
Iron					
Lead	anr				
Magnesium					
Manganese					
Molybdenum					
Nickel	anr				
Palladium					
Potassium					
Selenium	anr				
Silicon					
Silver	3.2	11.8	9.83	87.5	8.8 20
Sodium					
Thallium					
Tin					
Vanadium					
Zinc	anr				

Associated samples MP31798: J11509-1, J11509-2, J11509-3, J11509-6, J11509-7, J11509-8

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: J11509  
 Account: BCMNJ - ATC Associates, Inc.  
 Project: AGFA-Peerless, Shorham, NY

QC Batch ID: MP31798  
 Matrix Type: SOLID

Methods: SW846 6010B  
 Units: mg/kg

Prep Date: 10/06/05

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	8.5	10	85.0	80-120
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Potassium				
Selenium	anr			
Silicon				
Silver	8.5	10	85.0	80-120
Sodium				
Thallium				
Tin				
Vanadium				
Zinc	anr			

Associated samples MP31798: J11509-1, J11509-2, J11509-3, J11509-6, J11509-7, J11509-8

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

**DATA USABILITY REPORT**

**H2M CASE NO. ATC017**

DATA USABILITY SUMMARY REPORT

FOR

PEERLESS PHOTO PRODUCTS  
SHORHAM, NEW YORK  
MARCH 2007

REPORTED APRIL 2007

ATC PROJECT NO. 68.28817.0001

PREPARED BY



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MARK TRAXLER  
SENIOR QUALITY ASSURANCE SCIENTIST



The following Data Usability Summary Report (DUSR) was conducted by the ATC Associates Inc. Environmental Chemistry and Quality Assurance Department. This report has concluded that the following analytical data, with the use of the stated qualifications, generated in the sampling event of March 20, 2007 for the Peerless Photo Products Site are acceptable for its intended use in the subject investigation.



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Mark Traxler  
Senior Quality Assurance Scientist



**DATA USABILITY SUMMARY  
METALS  
PEERLESS PHOTO PRODUCTS SITE  
MARCH 2007**

**1.0 INTRODUCTION**

This Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. This DUSR has been developed from a full NYSDEC Analytical Services Protocol (ASP) Category B deliverables package.

This DUSR addresses the two (2) metals (cadmium and silver) results from the March 20, 2007 soil sampling event at the Peerless Photo Products site in Shorham, New York. Case 0703712 included a total of six (6) soil samples, including one (1) set of field duplicate samples, plus one (1) Matrix Spike/Matrix Duplicate (MS/MD) pair for limited metals (cadmium and silver) analysis. Case 0703712 also included one (1) aqueous field blank (FB) sample.

The findings offered in this DUSR are based upon a general review of sample data, holding times, initial and continuing calibration verification results, contract required detection limit (CRDL) standard results, blank contamination results, inductively coupled plasma (ICP) interference check sample results, spike sample results, laboratory and field duplicate results, and laboratory control sample results. All samples in this report were analyzed by H2M Laboratories (H2M), Melville, New York following United States Environmental Protection Agency (EPA) *Test Methods for Evaluating Solid Waste*, Update III, 1996 (SW-846) Methods 3050B and 6010B. The quality assurance review of the data described was prepared according to EPA's *National Functional Guidelines for Inorganic Data Review, Final*, (EPA 540-R-04-004) dated October 2004, where applicable to SW-846 Methods. Method protocol criteria were also considered as prescribed by SW-846.

The analytical data deliverables for Case 0703712 consist of NYSDCE ASP Category B reporting forms and raw data for each analysis, which includes instrument printouts, notebook pages, and chain-of-custody (COC) documents.

The data summary tables list the two (2) metals that were analyzed. Appendix A provides the sample results as reported by the laboratory, along with a copy of the associated COC documentation. The support documentation in Appendix B summarizes the specific issues raised in this review. Analytical problems that were encountered were outlined in the Findings/Qualifiers section.

The following components of the data package were reviewed for completeness:

- Sample chain-of-custody form;
- Case narrative;
- Summary forms and supporting documents;
- Calibration data;
- Instrument and method performance data;
- Data report forms, preparation logs and run logs; and
- Raw analytical data.

The following items of the data package were reviewed for compliance:

- The data package is complete, as defined above;
- The data has been produced and reported in a manner consistent with the requirements of the Quality Assurance Project Plan (QAPP);
- The QAPP-defined quality assurance (QA) and quality control (QC) criteria have been met;
- Instrument calibration requirements have been met for the time frame during which the analyses were completed;
- Initial and continuing calibration data are presented and documented;
- Data reporting forms are complete; and
- Problems encountered during the analytical process have been reported in the case narrative.

## **2.0 LABORATORY DATA PACKAGE**

The data package that was received from H2M was paginated, complete and overall was of good quality. Comments on specific QA/QC issues and other requirements are discussed in detail in this report.

The samples were collected, properly preserved, delivered under a chain of custody record, and received at H2M on the same day. All samples were received intact and in good condition at H2M.

The soil samples were collected and analyzed for total cadmium and silver following SW-846 Methods 3050B for digestion and 6010B for analysis.

### 3.0 FINDINGS/QUALIFIERS

The following metals analysis elements were reviewed for compliance:

- Custody documentation
- Holding times
- Initial and continuing calibrations
- Contract Required Detection Limit (CRDL) check sample
- Laboratory preparation blanks and field blanks
- Inductively coupled plasma (ICP) interference check sample
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample recoveries
- ICP serial dilution
- Sample result verification and identification
- Quantitation limits

It is recommended that Case 0703712 metals results be used with the following qualifiers:

1. All results that were above the IDL but less than the CRDL were flagged by the laboratory with a "B". Since these values were less than the CRDL, the results were qualified as estimated (J).
2. The MD relative percent difference (RPD) for silver exceeded the method requirements of 20%, but not the project Data Quality Objective (DQO) of 35% (33.4%). Therefore, no qualification of silver results was made due to the MD.
3. The ICP serial dilution exceeded the control limit of 10% difference (25.0%) for cadmium on sample APC11-BS-56. However, since the original value of cadmium was less than 50 times the IDL, the ICP serial dilution for cadmium was acceptable. No qualification of data was deemed necessary due to the ICP serial dilution results.

### 4.0 SUMMARY

The metals results are acceptable as qualified. Holding times, initial and continuing calibration verification results, CRDL check sample results, continuing calibration blank results, laboratory preparation blank results, blank sample results, ICP interference check

sample results, matrix spike recoveries, laboratory duplicates, field duplicates, laboratory control sample results, and ICP serial dilution results were within acceptance limits. Sample results were properly verified and identified, along with the appropriate quantitation limits.

This review has identified no areas of concern. The data has been qualified accordingly on the data summary table. For specifics relating to this review, see the attached documentation in Appendix B.

## QUALIFIER CODES - METALS

- U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ - The result is an estimated quantity, but the result may be biased high.
- J- - The result is an estimated quantity, but the result may be biased low.
- UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise
- R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be in the sample.

DATA SUMMARY - INORGANIC ANALYTES

Site Name Peerless Photo Products  
 Project Number 68.28817.0001  
 Sampling Date(s) 3/20/2007

Soil (mg/kg)  
 Aqueous (ug/L)

Laboratory H2M - Melville, New York  
 Case/Order # ATC017  
 Fraction/Method Metals / 3050B / 6010B

Sample Location or Description	APC-11-BS-56	APC-11-BS-56 MS	APC-11-BS-56 MD	APC-11-SW-19Z	APC-11-SW-20Z	APC-11-SW-20Z Dup	APC-11-FB-200			
Sample Number	0703712-001	0703712-001S	0703712-001D	0703712-002	0703712-003	0703712-004	0703712-005			
Sampling Date	3/20/2007	3/20/2007	3/20/2007	3/20/2007	3/20/2007	3/20/2007	3/20/2007			
Preparation Date	3/20/2007	3/20/2007	3/20/2007	3/20/2007	3/20/2007	3/20/2007	3/20/2007			
Analysis Date	3/21/2007	3/21/2007	3/21/2007	3/21/2007	3/21/2007	3/21/2007	3/21/2007			
Percent Solids	89.2	89.2	89.2	86.5	80.7	80.3	0.0			
RL	P F	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF
0.50	Cadmium X	0.17 B J 1	99.4% 1	0.19 B 1	0.28 B J 1	0.46 B J 1	0.47 B J 1	0.76 B J 1		
1.00	Silver X	5.9 * 1	78.7% 1	8.2 * 1	0.48 B* J 1	5.0 * 1	5.6 * 1	0.51 U U 1		

Sample Location or Description										
Sample Number										
Sampling Date										
Preparation Date										
Analysis Date										
Percent Solids										
RL	P F	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF	Q DF
0.50	Cadmium X									
1.00	Silver X									

P - ICP  
 F - Flame AA  
 Q - Qualifier, if any  
 DF - Dilution Factor

APPENDIX A

U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

APC-11-BS-56

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: ATC017

Matrix (soil/water): SOIL

Lab Sample ID: 0703712-001

Level (low/med): LOW

Date Received: 3/20/2007

% Solids: 89.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.17	B		P
7440-22-4	Silver	5.9		*	P

Color Before: BROWN

Clarity Before: \_\_\_\_\_

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

DATE REPORTED: MARCH 26, 2007

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U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

APC-11-SW-192

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: ATC017

Matrix (soil/water): SOIL

Lab Sample ID: 0703712-002

Level (low/med): LOW

Date Received: 3/20/2007

% Solids: 86.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.28	B		P
7440-22-4	Silver	0.48	B	*	P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: MARCH 26, 2007

U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

APC-11-SW-202

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: ATC017

Matrix (soil/water): SOIL

Lab Sample ID: 0703712-003

Level (low/med): LOW

Date Received: 3/20/2007

% Solids: 80.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.46	B		P
7440-22-4	Silver	5.0		*	P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: MARCH 26, 2007

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

APC-11-SW-202 DUP

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: ATC017

Matrix (soil/water): SOIL

Lab Sample ID: 0703712-004

Level (low/med): LOW

Date Received: 3/20/2007

% Solids: 80.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.47	B		P
7440-22-4	Silver	5.6		*	P

Color Before: BROWN

Clarity Before: \_\_\_\_\_

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

DATE REPORTED: MARCH 26, 2007

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

APC-11-FB-200

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: ATC017

Matrix (soil/water): WATER

Lab Sample ID: 0703712-005

Level (low/med): LOW

Date Received: 3/20/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.76	B		P
7440-22-4	Silver	0.51	U		P

Color Before: COLORLESS Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

DATE REPORTED: MARCH 26, 2007

**APPENDIX B**

# Inorganic Data Validation Summary

ATC

Project Name: Peerless Photo Products  
 Project No.: 68.28817.0001  
 Project Manager: T. Gregory  
 Laboratory: H2M

Case No./SDG: ATC017  
 Sampling Date(s): 3/20/2007  
 Reviewed By: M. Traxler  
 Completion Date: 4/26/2007

Compound List:  TAL  Appendix IX  Other Cd, Ag  
 Method:  CLP SOW 3/90  SW-846  Other \_\_\_\_\_  
 Matrix:  soil/solid (mg/Kg)  aqueous (ug/L)

The following table indicates the data validation criteria examined, problems identified, and QA action.

Data Validation Criteria:	accept	FYI	qualify	comments
Holding Times	X			Less than 180 days
Calibration Linearity - Furnace, Hg, and CN				NR
Calibration Verification	X			2-point standard
CRDL Standard	X			50 - 150 % R
Calibration Blanks	X			< RL
Preparation Blanks	X			< RL
Field Blank	X			< RL
ICP Interference Check Sample	X			80 - 120 % R
Laboratory Control Sample	X			80 - 120 % R
Matrix Duplicate Results	X			< 35 RPD
Matrix Spike Results	X			Ag > 4X spike amount
ICP Serial Dilution			X	Cd > 10 RPD, but < 50x IDL
Post Digestion Analytical Spike				NR
Method of Standard Addition				NR
Field Duplicate Results	X			< 50 RPD
Sample Result Verification	X			Cadmium and Silver
Other:				

General Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NA - Not applicable  
 NR - Not reviewed

QA Scientist M. Traxler Date 4/27/07

# Inorganic Matrix Spike/ Matrix Duplicate Worksheet

ATC

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: ATC017

Sample Location or Description	APC-11-BS-56	APC-11-BS-56D	APC-11-BS-56S
Sample Number	0703712-001	0703712-001D	0703712-001S
Sampling Date	3/20/2007	3/20/2007	3/20/2007
Units	mg/kg	mg/kg	mg/kg

	Spike Amount	Sample Result	MD Result	MS Result	MD RPD	Q	MS %R	Q
Cadmium	5.61	0.1749	0.1928	5.7466	9.8		99.4	
Silver	5.61	5.8531	8.2040	10.266	33.4	*	78.7	

Q - Qualifier  
 \* - Denotes RPD outside criteria

# Inorganic Field Duplicate Precision Worksheet

**ATC**

Project Name: Peerless Photo Products  
 Project Number: 68.28817.0001

Case/SDG Number: ATC017

Sample Location or Description	APC-11-SW-20Z	APC-11-SW-20Z
Sample Number	0703712-003	0703712-004
Sampling Date	3/20/2007	3/20/2007
Units	mg/kg	mg/kg

	Sample	Field Duplicate	RPD	Q
Cadmium	0.46	0.47	2.2	
Silver	5.0	5.6	11.3	

\* - Denotes RPD outside criteria



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND  
ANALYTICAL REQUIREMENT SUMMARY

SDG: ATC017

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	ME
APC-11-BS-56	0703712-001	X
APC-11-SW-19Z	0703712-002	X
APC-11-SW-20Z	0703712-003	X
APC-11-SW-20Z DUP	0703712-004	X
APC-11-FB-200	0703712-005	X

CLP Non-CLP (Please indicate year of protocol)

ASP B  
6/2000  
CEL 3/2007

ATC017 S3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
INORGANIC ANALYSIS

SDG : ATC017

Laboratory Samp ID	Client Sample ID	Matrix	Metals Requested	Date Recd at Lab	Date Analyzed
0703712-001	APC-11-BS-56	SOIL	AG,CD,	20-Mar-07	03/07
0703712-001DUP	APC-11-BS-56D	SOIL	AG,CD,	20-Mar-07	03/07
0703712-001MS	APC-11-BS-56S	SOIL	AG,CD,	20-Mar-07	03/07
0703712-002	APC-11-SW-19Z	SOIL	AG,CD,	20-Mar-07	03/07
0703712-003	APC-11-SW-20Z	SOIL	AG,CD,	20-Mar-07	03/07
0703712-004	APC-11-SW-20Z DUP	SOIL	AG,CD,	20-Mar-07	03/07
0703712-005	APC-11-FB-200	WATER	AG,CD,	20-Mar-07	03/07



# H2M LABS, INC.

SDG NARRATIVE FOR METALS  
SAMPLES RECEIVED: 3/20/07  
SDG #: ATC017

For Samples:

APC-11-BS-56  
APC-11-SW-19Z  
APC-11-SW-20Z  
APC-11-SW-20Z DUP  
APC-11-FB-200

One water sample and four soil samples were received by H2M Labs, Inc. on 3/20/07 for cadmium and silver analysis.

Samples were prepared and analyzed using EPA method 6010B with a TJA 61E trace ICP instrument.

Sample APC-11-BS-56 was utilized for QC analysis and reporting.

Duplicate analysis did not reproduce within acceptance ranges for silver. Silver data was reported flagged " \* " on Forms 1 and 6.

No other issues were noted during the analysis of this sample group.

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.**

Date Reported: March 30, 2007

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\* *V. Stancampiano* \*

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Vincent Stancampiano  
Vice President

*NRC*

ATC017 S11

# H2M LABS, INC.

## QUALIFIERS FOR METALS ANALYSIS

### Q (Quality Control) Qualifiers

- E - The reported value is estimated because of the presence of interference. An explanatory note is included in the SDG narrative.
- M - Duplicate injection precision not met.
- N - Matrix spike sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- + - Correlation coefficient for the MSA is less than 0.995
- W - Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.
- \* - Duplicate analysis is not within control limits.

### C (Concentration) Qualifiers

- B - Entered if the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).
- U - Entered if the analyte was analyzed for but not detected, i.e., less than the IDL.

### M (Method) Qualifiers

- P - Analyzed by ICP.
- M - Analyzed by ICP-MS
- A - Analyzed by Flame AA.
- F - Analyzed by Furnace AA.
- CV - Analyzed by Manual Cold Vapor techniques.
- AV - Analyzed by Automated Cold Vapor techniques.
- C - Analyzed by Manual Spectrophotometric Method.
- CA - Analyzed by Midi-distillation Spectrophotometric Method.
- NR - Analyte not Required.

U.S. EPA - CLP

6  
DUPLICATES

EPA SAMPLE NO

APC-11-BS-56

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: ATC017

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 89.2

% Solids for Duplicate: 89.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Cadmium	0.5605	0.1749	B	0.1928	B	9.8		P
Silver		5.8531		8.2040		33.4		P

MT  
4/26/07

U.S. EPA - CLP

5A  
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO

APC-11-BS-56S

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: ATC017

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 89.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Cadmium	75-125	5.7466	0.1749 B	5.61	99.4		P
Silver	75-125	10.2660	5.8531	5.61	78.7		P

Comments:

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U.S. EPA - CLP

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BLANKS

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: ATC017

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		C	M
	1	C	1	C	2	C	3	C	Blank	C		
Cadmium	1.1	B	1.2	B	1.1	B	1.0	B	0.030	B	P	
Silver	0.5	U	0.6	B	0.5	U	0.5	U	0.051	U	P	