



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 11, 2009

Jessica Vickers
Tetra Tech EM Inc.
1955 Evergreen Blvd.
Bldg 200 Suite 300
Duluth, GA 30096

TEL: (678) 775-3104

FAX: (678) 775-3138

RE: Powder Springs Plating

Order No.: 0912570

Dear Jessica Vickers:

Analytical Environmental Services, Inc. received 18 samples on 12/7/2009 5:15:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full and contains 30 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

for Blair Stout
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0912570

Date: 12-7-09 Page 1 of 2

COMPANY: <u>Tetra Tech Em Inc.</u>		ADDRESS: <u>1955 Evergreen Blvd.</u>		ANALYSIS REQUESTED		Visit our website <u>www.aesatlanta.com</u> to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: <u>(770) 775-3104</u>		FAX: <u>(770) 775-3138</u>		PRESERVATION (See codes)					
SAMPLED BY: <u>Brian Craft</u>		SIGNATURE: <u>Brian Craft</u>							
#	SAMPLE ID	DATE	TIME	SAMPLED	Grab	Composite	Matrix (See codes)	REMARKS	
1	PSP-S-11	12-7-09	1110			X	SO		
2	PSP-S-12	12-7-09	1125			X	SO		
3	PSP-S-13	12-7-09	1140			X	SO		
4	PSP-S-14	12-7-09	1145			X	SO		
5	PSP-S-15	12-7-09	1155			X	SO		
6	PSP-S-16	12-7-09	1200			X	SO		
7	PSP-S-17	12-7-09	1215			X	SO		
8	PSP-S-18	12-7-09	1220			X	SO		
9	PSP-S-19	12-7-09	1225			X	SO		
10	PSP-S-20	12-7-09	1230			X	SO		
11	PSP-S-21	12-7-09	1420			X	SO		
12	PSP-S-22	12-7-09	1425			X	SO		
13	PSP-S-23	12-7-09	1500			X	SO		
14	PSP-S-24	12-7-09	1515			X	SO		
RELINQUISHED BY: <u>[Signature]</u>		DATE/TIME RECEIVED BY: <u>[Signature]</u>		DATE/TIME					
1: <u>12/7/09 1715</u>		1: <u>12/19 5:15</u>							
2: <u>[Signature]</u>		2: <u>[Signature]</u>							
3: <u>[Signature]</u>		3: <u>[Signature]</u>							
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD		INVOICE TO:		TURNAROUND TIME REQUEST	
				OUT / / VIA:		(IF DIFFERENT FROM ABOVE)		Standard 3 Business Days	
				IN / / VIA:				2 Business Day Rush	
				CLIENT: <u>[Signature]</u> FedEx UPS MAIL COURIER				Next Business Day Rush	
				GREYHOUND OTHER:				Same Day Rush (auth req.)	
								Other	
								STATE PROGRAM (if any):	
								E-mail? <input checked="" type="checkbox"/> N: Fax? <input checked="" type="checkbox"/> N	
								DATA PACKAGE: I II III	
								QUOTE #: PO#:	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice SM+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

COMPANY:		ADDRESS:		ANALYSIS REQUESTED		REMARKS	
TEL: Tech Em Inc		1955 Evergreen Blvd. Bldg 200 Ste 300 Duluth, GA 30096				Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	
PHONE: (770) 775-3104		FAX: (770) 775-3138					
SAMPLED BY: Brian Craft		SIGNATURE: <i>Brian Craft</i>					
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	
1	PSP-S-25	12-7-09	1530		X	SO	
2	PSP-S-26	12-7-09	1550		X	SO	
3	PSP-S-27	12-7-09	1600		X	SO	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

RELINQUISHED BY: *[Signature]*

DATE/TIME: 12/17/19

RECEIVED BY: *[Signature]*

DATE/TIME: 12/17/19

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD: ☒ CLIENT FedEx ☐ UPS ☐ MAIL ☐ COURIER

OUT: ☐ IN: ☒

VIA: ☐ VIA: ☐

OTHER: ☐

PROJECT NAME: Powder Springs Plant

PROJECT #: TTEM-05-001-0112

SITE ADDRESS: Austell, GA

SEND REPORT TO: Jessica Vikes

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: Same as above

PO#: _____

RECEIPT

Total # of Containers

Turnaround Time Request

Standard 5 Business Days ☐

2 Business Day Rush ☒

Next Business Day Rush ☐

Same Day Rush (auth req.) ☐

Other ☐

STATE PROGRAM (if any): _____

E-mail? Y/N: _____ Fax? Y/N: _____

DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil W = Water (Blanks) DW = Drinking Water (Blanks) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/N+I = Sodium Bisulfate/Methanol + ice NA = None

White Copy - Original; Yellow Copy - Client



ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: C912570

Date: 12/8/09

Page 1 of 1

COMPANY:		ADDRESS:		1955 Evergreen Blvd. Bldg 200 Suite 300 Duluth GA 30096	
PHONE		FAX:		678-775-3138	
SAMP		SIGNATURE:			
SAMPLE ID		SAMPLED		Matrix (See codes)	
#	DATE	TIME	Grab	Composite	
1	FSP-S-28	12/8/2009	915	X	SO
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
RELINQUISHED BY		RECEIVED BY		DATE/TIME	
1:		1:		12/8/09 12:50	
2:		2:		12:50	
3:		3:		12:50	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT / / VIA:	
		IN		FedEx UPS MAIL COURIER	
		GREYHOUND OTHER			
PROJECT NAME:		PROJECT #:		SITE ADDRESS:	
Powder Springs Plating		TTEMI-05-001-0112		Austell, GA	
SEND REPORT TO:		INVOICE TO:		TURNAROUND TIME REQUEST	
Jessica Vickers		(IF DIFFERENT FROM ABOVE)		Standard 5 Business Days	
				2 Business Day Rush	
				Next Business Day Rush	
				Same Day Rush (auth req.)	
				Other	
QUOTE #:		PO#:		STATE PROGRAM (if any):	
				E-mail? Y; Fax? Y	
				DATA PACKAGE: IV	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Tetra Tech

Work Order Number 0912570

Checklist completed by m/ou 12/8/9
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 3.6 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☐ No ☐ Not Applicable ☒

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\\Checklists Procedures Sign-Off Templates\\Checklists\\Sample Receipt Checklists\\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Tetra Tech

Work Order Number 0912570

Checklist completed by A. Amindug 12/17/09
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 4°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☐ No ☐ Not Applicable ☒

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

CLIENT: Tetra Tech EM Inc.
Project: Powder Springs Plating
Lab Order: 0912570

CASE NARRATIVE

12/8/09 11:21a.m. - Per Jessica Vickers, via phone, one more sample will be submitted on 12/8/09 for this project. The extra sample needs to be logged in under work order 0912570 with a due date of 12/10/09.

Sample "PSP-S-28" was received 12/8/2009 at 12:50pm.

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-001

Client Sample ID: PSP-S-11
Collection Date: 12/7/2009 11:10:00 AM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	1.28	J	0.124	5.70	mg/Kg-dry	122381	1	12/10/2009 4:50:08 PM
Barium	41.7		0.0928	5.70	mg/Kg-dry	122381	1	12/10/2009 4:50:08 PM
Cadmium	0.0729	J	0.0458	2.85	mg/Kg-dry	122381	1	12/10/2009 4:50:08 PM
Chromium	22.0		0.120	2.85	mg/Kg-dry	122381	1	12/10/2009 4:50:08 PM
Lead	46.5		0.0906	5.70	mg/Kg-dry	122381	1	12/10/2009 4:50:08 PM
Selenium	BRL		0.187	5.70	mg/Kg-dry	122381	1	12/10/2009 4:50:08 PM
Silver	BRL		0.0426	2.85	mg/Kg-dry	122381	1	12/10/2009 4:50:08 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	BRL		0.774	1.28	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.118	0.135	mg/Kg-dry	122327	1	12/8/2009 3:50:38 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	26.3		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix
			BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-002

Client Sample ID: PSP-S-12
Collection Date: 12/7/2009 11:25:00 AM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	0.838	J	0.121	5.56	mg/Kg-dry	122381	1	12/10/2009 5:09:28 PM
Barium	51.3		0.0906	5.56	mg/Kg-dry	122381	1	12/10/2009 5:09:28 PM
Cadmium	0.352	J	0.0447	2.78	mg/Kg-dry	122381	1	12/10/2009 5:09:28 PM
Chromium	18.8		0.117	2.78	mg/Kg-dry	122381	1	12/10/2009 5:09:28 PM
Lead	39.3		0.0885	5.56	mg/Kg-dry	122381	1	12/10/2009 5:09:28 PM
Selenium	BRL		0.183	5.56	mg/Kg-dry	122381	1	12/10/2009 5:09:28 PM
Silver	BRL		0.0416	2.78	mg/Kg-dry	122381	1	12/10/2009 5:09:28 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	1.03	J	0.761	1.26	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.118	0.136	mg/Kg-dry	122327	1	12/8/2009 3:58:58 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	26.5		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-003

Client Sample ID: PSP-S-13
Collection Date: 12/7/2009 11:40:00 AM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	1.44	J	0.129	5.92	mg/Kg-dry	122381	1	12/10/2009 5:13:06 PM
Barium	44.1		0.0964	5.92	mg/Kg-dry	122381	1	12/10/2009 5:13:06 PM
Cadmium	0.122	J	0.0476	2.96	mg/Kg-dry	122381	1	12/10/2009 5:13:06 PM
Chromium	16.1		0.124	2.96	mg/Kg-dry	122381	1	12/10/2009 5:13:06 PM
Lead	49.4		0.0942	5.92	mg/Kg-dry	122381	1	12/10/2009 5:13:06 PM
Selenium	BRL		0.195	5.92	mg/Kg-dry	122381	1	12/10/2009 5:13:06 PM
Silver	BRL		0.0443	2.96	mg/Kg-dry	122381	1	12/10/2009 5:13:06 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	BRL		0.805	1.33	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.123	0.140	mg/Kg-dry	122327	1	12/8/2009 4:01:04 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	29.1		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-004

Client Sample ID: PSP-S-14
Collection Date: 12/7/2009 11:45:00 AM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	1.04	J	0.114	5.26	mg/Kg-dry	122381	1	12/10/2009 5:16:42 PM
Barium	50.2		0.0856	5.26	mg/Kg-dry	122381	1	12/10/2009 5:16:42 PM
Cadmium	0.133	J	0.0423	2.63	mg/Kg-dry	122381	1	12/10/2009 5:16:42 PM
Chromium	367		0.110	2.63	mg/Kg-dry	122381	1	12/10/2009 5:16:42 PM
Lead	44.8		0.0836	5.26	mg/Kg-dry	122381	1	12/10/2009 5:16:42 PM
Selenium	BRL		0.173	5.26	mg/Kg-dry	122381	1	12/10/2009 5:16:42 PM
Silver	BRL		0.0393	2.63	mg/Kg-dry	122381	1	12/10/2009 5:16:42 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	2.62		0.809	1.34	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.116	0.133	mg/Kg-dry	122327	1	12/8/2009 4:03:08 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	25.3		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix
			BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-005

Client Sample ID: PSP-S-15
Collection Date: 12/7/2009 11:55:00 AM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	0.683	J	0.0984	4.53	mg/Kg-dry	122381	1	12/10/2009 5:26:44 PM
Barium	48.1		0.0737	4.53	mg/Kg-dry	122381	1	12/10/2009 5:26:44 PM
Cadmium	BRL		0.0364	2.26	mg/Kg-dry	122381	1	12/10/2009 5:26:44 PM
Chromium	1020		0.0951	2.26	mg/Kg-dry	122381	1	12/10/2009 5:26:44 PM
Lead	11.7		0.0720	4.53	mg/Kg-dry	122381	1	12/10/2009 5:26:44 PM
Selenium	BRL		0.149	4.53	mg/Kg-dry	122381	1	12/10/2009 5:26:44 PM
Silver	BRL		0.0339	2.26	mg/Kg-dry	122381	1	12/10/2009 5:26:44 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	15.4		0.643	1.06	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.0965	0.110	mg/Kg-dry	122327	1	12/8/2009 4:05:14 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	11.3		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-006

Client Sample ID: PSP-S-16
Collection Date: 12/7/2009 12:00:00 PM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	0.503	J	0.107	4.90	mg/Kg-dry	122381	1	12/10/2009 5:30:25 PM
Barium	67.0		0.0798	4.90	mg/Kg-dry	122381	1	12/10/2009 5:30:25 PM
Cadmium	0.167	J	0.0394	2.45	mg/Kg-dry	122381	1	12/10/2009 5:30:25 PM
Chromium	113		0.103	2.45	mg/Kg-dry	122381	1	12/10/2009 5:30:25 PM
Lead	14.8		0.0780	4.90	mg/Kg-dry	122381	1	12/10/2009 5:30:25 PM
Selenium	BRL		0.161	4.90	mg/Kg-dry	122381	1	12/10/2009 5:30:25 PM
Silver	0.206	J	0.0367	2.45	mg/Kg-dry	122381	1	12/10/2009 5:30:25 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	4.00		0.679	1.12	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.0992	0.114	mg/Kg-dry	122327	1	12/8/2009 4:11:26 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	12.8		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-007

Client Sample ID: PSP-S-17
Collection Date: 12/7/2009 12:15:00 PM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	2.08	J	0.108	4.98	mg/Kg-dry	122381	1	12/10/2009 5:34:01 PM
Barium	73.5		0.0811	4.98	mg/Kg-dry	122381	1	12/10/2009 5:34:01 PM
Cadmium	0.117	J	0.0400	2.49	mg/Kg-dry	122381	1	12/10/2009 5:34:01 PM
Chromium	1670		0.105	2.49	mg/Kg-dry	122381	1	12/10/2009 5:34:01 PM
Lead	28.7		0.0792	4.98	mg/Kg-dry	122381	1	12/10/2009 5:34:01 PM
Selenium	BRL		0.164	4.98	mg/Kg-dry	122381	1	12/10/2009 5:34:01 PM
Silver	BRL		0.0373	2.49	mg/Kg-dry	122381	1	12/10/2009 5:34:01 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	136		0.620	1.03	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.0955	0.109	mg/Kg-dry	122327	1	12/8/2009 4:13:30 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	9.71		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix
			BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
 Lab Order: 0912570
 Project: Powder Springs Plating
 Lab ID: 0912570-008

Client Sample ID: PSP-S-18
 Collection Date: 12/7/2009 12:20:00 PM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	1.32	J	0.0914	4.21	mg/Kg-dry	122381	1	12/10/2009 5:37:46 PM
Barium	101		0.0685	4.21	mg/Kg-dry	122381	1	12/10/2009 5:37:46 PM
Cadmium	0.0856	J	0.0338	2.10	mg/Kg-dry	122381	1	12/10/2009 5:37:46 PM
Chromium	1990		0.0883	2.10	mg/Kg-dry	122381	1	12/10/2009 5:37:46 PM
Lead	186		0.0669	4.21	mg/Kg-dry	122381	1	12/10/2009 5:37:46 PM
Selenium	0.214	J	0.138	4.21	mg/Kg-dry	122381	1	12/10/2009 5:37:46 PM
Silver	0.0774	J	0.0315	2.10	mg/Kg-dry	122381	1	12/10/2009 5:37:46 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	1670		61.6	102	mg/Kg-dry	122391	100	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.0961	0.110	mg/Kg-dry	122327	1	12/8/2009 4:15:34 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	9.20		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 > Greater than Result value
 E Estimated value above quantitation range
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix
 BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-009

Client Sample ID: PSP-S-19
Collection Date: 12/7/2009 12:25:00 PM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	1.51	J	0.110	5.07	mg/Kg-dry	122381	1	12/10/2009 5:41:35 PM
Barium	93.8		0.0826	5.07	mg/Kg-dry	122381	1	12/10/2009 5:41:35 PM
Cadmium	0.0833	J	0.0408	2.54	mg/Kg-dry	122381	1	12/10/2009 5:41:35 PM
Chromium	2020		0.107	2.54	mg/Kg-dry	122381	1	12/10/2009 5:41:35 PM
Lead	65.9		0.0806	5.07	mg/Kg-dry	122381	1	12/10/2009 5:41:35 PM
Selenium	BRL		0.167	5.07	mg/Kg-dry	122381	1	12/10/2009 5:41:35 PM
Silver	BRL		0.0379	2.54	mg/Kg-dry	122381	1	12/10/2009 5:41:35 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	1820		66.2	110	mg/Kg-dry	122391	100	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.0950	0.109	mg/Kg-dry	122327	1	12/8/2009 4:17:38 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	8.75		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-010

Client Sample ID: PSP-S-20
Collection Date: 12/7/2009 12:30:00 PM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	3.03	J	0.108	4.98	mg/Kg-dry	122381	1	12/10/2009 5:45:21 PM
Barium	55.3		0.0811	4.98	mg/Kg-dry	122381	1	12/10/2009 5:45:21 PM
Cadmium	0.0611	J	0.0401	2.49	mg/Kg-dry	122381	1	12/10/2009 5:45:21 PM
Chromium	142		0.105	2.49	mg/Kg-dry	122381	1	12/10/2009 5:45:21 PM
Lead	66.7		0.0792	4.98	mg/Kg-dry	122381	1	12/10/2009 5:45:21 PM
Selenium	BRL		0.164	4.98	mg/Kg-dry	122381	1	12/10/2009 5:45:21 PM
Silver	BRL		0.0373	2.49	mg/Kg-dry	122381	1	12/10/2009 5:45:21 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	3.69		0.749	1.24	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.108	0.124	mg/Kg-dry	122327	1	12/8/2009 4:19:44 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	19.3		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix
			BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
 Lab Order: 0912570
 Project: Powder Springs Plating
 Lab ID: 0912570-011

Client Sample ID: PSP-S-21
 Collection Date: 12/7/2009 2:20:00 PM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	0.899	J	0.0935	4.30	mg/Kg-dry	122381	1	12/10/2009 5:48:57 PM
Barium	53.3		0.0700	4.30	mg/Kg-dry	122381	1	12/10/2009 5:48:57 PM
Cadmium	BRL		0.0346	2.15	mg/Kg-dry	122381	1	12/10/2009 5:48:57 PM
Chromium	447		0.0903	2.15	mg/Kg-dry	122381	1	12/10/2009 5:48:57 PM
Lead	11.9		0.0684	4.30	mg/Kg-dry	122381	1	12/10/2009 5:48:57 PM
Selenium	BRL		0.141	4.30	mg/Kg-dry	122381	1	12/10/2009 5:48:57 PM
Silver	BRL		0.0322	2.15	mg/Kg-dry	122381	1	12/10/2009 5:48:57 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	22.6		0.607	1.00	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.0953	0.109	mg/Kg-dry	122327	1	12/8/2009 4:21:48 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	9.42		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 > Greater than Result value
 E Estimated value above quantitation range
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix
 BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-012

Client Sample ID: PSP-S-22
Collection Date: 12/7/2009 2:25:00 PM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	2.05	J	0.129	5.95	mg/Kg-dry	122381	1	12/10/2009 5:52:38 PM
Barium	100		0.0969	5.95	mg/Kg-dry	122381	1	12/10/2009 5:52:38 PM
Cadmium	0.340	J	0.0479	2.98	mg/Kg-dry	122381	1	12/10/2009 5:52:38 PM
Chromium	289		0.125	2.98	mg/Kg-dry	122381	1	12/10/2009 5:52:38 PM
Lead	26.7		0.0946	5.95	mg/Kg-dry	122381	1	12/10/2009 5:52:38 PM
Selenium	BRL		0.196	5.95	mg/Kg-dry	122381	1	12/10/2009 5:52:38 PM
Silver	BRL		0.0445	2.98	mg/Kg-dry	122381	1	12/10/2009 5:52:38 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	3.04		0.759	1.26	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.117	0.134	mg/Kg-dry	122327	1	12/8/2009 4:23:52 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	27.6		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-013

Client Sample ID: PSP-S-23
Collection Date: 12/7/2009 3:00:00 PM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	0.153	J	0.106	4.89	mg/Kg-dry	122381	1	12/10/2009 5:56:17 PM
Barium	78.8		0.0795	4.89	mg/Kg-dry	122381	1	12/10/2009 5:56:17 PM
Cadmium	BRL		0.0393	2.44	mg/Kg-dry	122381	1	12/10/2009 5:56:17 PM
Chromium	50.6		0.103	2.44	mg/Kg-dry	122381	1	12/10/2009 5:56:17 PM
Lead	13.0		0.0777	4.89	mg/Kg-dry	122381	1	12/10/2009 5:56:17 PM
Selenium	BRL		0.161	4.89	mg/Kg-dry	122381	1	12/10/2009 5:56:17 PM
Silver	BRL		0.0365	2.44	mg/Kg-dry	122381	1	12/10/2009 5:56:17 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	2.72		0.647	1.07	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.0931	0.107	mg/Kg-dry	122327	1	12/8/2009 4:25:58 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	6.53		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix
			BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-014

Client Sample ID: PSP-S-24
Collection Date: 12/7/2009 3:15:00 PM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	BRL		0.0940	4.32 mg/Kg-dry		122381	1	12/10/2009 5:59:54 PM
Barium	53.4		0.0704	4.32 mg/Kg-dry		122381	1	12/10/2009 5:59:54 PM
Cadmium	BRL		0.0347	2.16 mg/Kg-dry		122381	1	12/10/2009 5:59:54 PM
Chromium	94.6		0.0908	2.16 mg/Kg-dry		122381	1	12/10/2009 5:59:54 PM
Lead	7.69		0.0687	4.32 mg/Kg-dry		122381	1	12/10/2009 5:59:54 PM
Selenium	BRL		0.142	4.32 mg/Kg-dry		122381	1	12/10/2009 5:59:54 PM
Silver	BRL		0.0323	2.16 mg/Kg-dry		122381	1	12/10/2009 5:59:54 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	6.71		0.658	1.09 mg/Kg-dry		122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.0933	0.107 mg/Kg-dry		122327	1	12/8/2009 4:28:02 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	8.21		0	0 wt%			1	12/9/2009 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-015

Client Sample ID: PSP-S-25
Collection Date: 12/7/2009 3:30:00 PM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	0.610	J	0.0964	4.43	mg/Kg-dry	122381	1	12/10/2009 6:10:05 PM
Barium	38.6		0.0722	4.43	mg/Kg-dry	122381	1	12/10/2009 6:10:05 PM
Cadmium	0.647	J	0.0356	2.22	mg/Kg-dry	122381	1	12/10/2009 6:10:05 PM
Chromium	20.1		0.0931	2.22	mg/Kg-dry	122381	1	12/10/2009 6:10:05 PM
Lead	34.3		0.0705	4.43	mg/Kg-dry	122381	1	12/10/2009 6:10:05 PM
Selenium	BRL		0.146	4.43	mg/Kg-dry	122381	1	12/10/2009 6:10:05 PM
Silver	BRL		0.0332	2.22	mg/Kg-dry	122381	1	12/10/2009 6:10:05 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	4.30		0.666	1.10	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.0957	0.110	mg/Kg-dry	122327	1	12/8/2009 4:30:06 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	9.26		0	0	wl%		1	12/9/2009 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
 Lab Order: 0912570
 Project: Powder Springs Plating
 Lab ID: 0912570-016

Client Sample ID: PSP-S-26
 Collection Date: 12/7/2009 3:50:00 PM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	0.201	J	0.115	5.28	mg/Kg-dry	122381	1	12/10/2009 6:13:38 PM
Barium	24.1		0.0859	5.28	mg/Kg-dry	122381	1	12/10/2009 6:13:38 PM
Cadmium	BRL		0.0424	2.64	mg/Kg-dry	122381	1	12/10/2009 6:13:38 PM
Chromium	1840		0.111	2.64	mg/Kg-dry	122381	1	12/10/2009 6:13:38 PM
Lead	13.0		0.0839	5.28	mg/Kg-dry	122381	1	12/10/2009 6:13:38 PM
Selenium	BRL		0.174	5.28	mg/Kg-dry	122381	1	12/10/2009 6:13:38 PM
Silver	0.0605	J	0.0395	2.64	mg/Kg-dry	122381	1	12/10/2009 6:13:38 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	589		70.6	117	mg/Kg-dry	122391	100	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.112	0.128	mg/Kg-dry	122327	1	12/8/2009 4:36:18 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	22.2		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 > Greater than Result value
 E Estimated value above quantitation range
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix
 BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-017

Client Sample ID: PSP-S-27
Collection Date: 12/7/2009 4:00:00 PM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	12.9		0.112	5.15	mg/Kg-dry	122381	1	12/10/2009 6:17:29 PM
Barium	313		0.0839	5.15	mg/Kg-dry	122381	1	12/10/2009 6:17:29 PM
Cadmium	0.924	J	0.0414	2.58	mg/Kg-dry	122381	1	12/10/2009 6:17:29 PM
Chromium	11800		1.08	25.8	mg/Kg-dry	122381	10	12/10/2009 6:21:30 PM
Lead	10200		0.819	51.5	mg/Kg-dry	122381	10	12/10/2009 6:21:30 PM
Selenium	BRL		0.169	5.15	mg/Kg-dry	122381	1	12/10/2009 6:17:29 PM
Silver	1.80	J	0.0385	2.58	mg/Kg-dry	122381	1	12/10/2009 6:17:29 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	2280		76.9	127	mg/Kg-dry	122391	100	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.111	0.127	mg/Kg-dry	122327	1	12/8/2009 4:38:28 PM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	21.4		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix
			BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: 11-Dec-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0912570
Project: Powder Springs Plating
Lab ID: 0912570-018

Client Sample ID: PSP-S-28
Collection Date: 12/8/2009 9:15:00 AM

Matrix: SOIL

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL SW6010C				(SW3050B)				Analyst: JY
Arsenic	3.00	J	0.109	5.02	mg/Kg-dry	122381	1	12/10/2009 6:25:31 PM
Barium	60.7		0.0817	5.02	mg/Kg-dry	122381	1	12/10/2009 6:25:31 PM
Cadmium	BRL		0.0404	2.51	mg/Kg-dry	122381	1	12/10/2009 6:25:31 PM
Chromium	24.8		0.105	2.51	mg/Kg-dry	122381	1	12/10/2009 6:25:31 PM
Lead	6.04		0.0798	5.02	mg/Kg-dry	122381	1	12/10/2009 6:25:31 PM
Selenium	BRL		0.165	5.02	mg/Kg-dry	122381	1	12/10/2009 6:25:31 PM
Silver	BRL		0.0375	2.51	mg/Kg-dry	122381	1	12/10/2009 6:25:31 PM
HEXAVALENT CHROMIUM SW7196				(SW3060A)				Analyst: CG
Chromium, Hexavalent	2.49		0.655	1.08	mg/Kg-dry	122391	1	12/10/2009 10:00:00 A
TOTAL MERCURY SW7471B				(SW7471)				Analyst: MAW
Mercury	BRL		0.101	0.115	mg/Kg-dry	122298	1	12/9/2009 10:23:14 AM
PERCENT MOISTURE D2216								Analyst: AZS
Percent Moisture	14.6		0	0	wt%		1	12/9/2009 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

CLIENT: Tetra Tech EM Inc.
 Work Order: 0912570
 Project: Powder Springs Plating

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS, TOTAL SW6010C

Sample ID: MB-122381	SampType: MBLK	Batch ID: 122381	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 161536						
Client ID:	TestCode: METALS, TOTAL	SW6010C		Analysis Date: 12/10/2009	SeqNo: 3340349						
Analyte	Result	RPT Limit	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	BRL	5.00	0	0	0	0	0	0	0	0	0
Barium	BRL	5.00	0	0	0	0	0	0	0	0	0
Cadmium	BRL	2.50	0	0	0	0	0	0	0	0	0
Chromium	BRL	2.50	0	0	0	0	0	0	0	0	0
Lead	BRL	5.00	0	0	0	0	0	0	0	0	0
Selenium	BRL	5.00	0	0	0	0	0	0	0	0	0
Silver	BRL	2.50	0	0	0	0	0	0	0	0	0

Sample ID: LCS-122381	SampType: LCS	Batch ID: 122381	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 161536						
Client ID:	TestCode: METALS, TOTAL	SW6010C		Analysis Date: 12/10/2009	SeqNo: 3340348						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	48.24	5.00	50	0	96.5	80	120	0	0	0	0
Barium	48.71	5.00	50	0	97.4	80	120	0	0	0	0
Cadmium	48.59	2.50	50	0	97.2	80	120	0	0	0	0
Chromium	51.09	2.50	50	0	102	80	120	0	0	0	0
Lead	48.61	5.00	50	0	97.2	80	120	0	0	0	0
Selenium	48.73	5.00	50	0	97.5	80	120	0	0	0	0
Silver	4.829	2.50	5	0	96.6	80	120	0	0	0	0

Sample ID: 0912570-001AMS	SampType: MS	Batch ID: 122381	Units: mg/Kg-dry	Prep Date: 12/9/2009	RunNo: 161536						
Client ID: PSP-S-11	TestCode: METALS, TOTAL	SW6010C		Analysis Date: 12/10/2009	SeqNo: 3340354						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	54.66	5.74	57.38	1.278	93	75	125	0	0	0	0
Barium	93.52	5.74	57.38	41.75	90.2	75	125	0	0	0	0

Qualifiers: < Less than Result value
 BRL Below Reporting Limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

> Greater than Result value
 E Estimated value above quantitation range
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

CLIENT: Tetra Tech EM Inc.
 Work Order: 0912570
 Project: Powder Springs Plating

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS, TOTAL SW6010C

Sample ID: 0912570-001AMS		SampleType: MS	Batch ID: 122381		Units: mg/Kg-dry		Prep Date: 12/9/2009		RunNo: 161536		
Client ID: PSP-S-11		TestCode: METALS, TOTAL	SW6010C				Analysis Date: 12/10/2009		SeqNo: 3340354		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	54.77	2.87	57.38	0.07295	95.3	75	125	0	0		
Chromium	79.99	2.87	57.38	22.02	101	75	125	0	0		
Lead	92.68	5.74	57.38	46.52	80.4	75	125	0	0		
Selenium	52.66	5.74	57.38	0	91.8	75	125	0	0		
Silver	5.396	2.87	5.738	0	94	75	125	0	0		

Sample ID: 0912570-001AMSD		Sample Type: MSD	Batch ID: 122381		Units: mg/Kg-dry		Prep Date: 12/9/2009		RunNo: 161536		
Client ID: PSP-S-11		TestCode: METALS, TOTAL	SW6010C				Analysis Date: 12/10/2009		SeqNo: 3340355		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	54.28	5.62	56.22	1.278	94.3	75	125	54.66	0.702	20	
Barium	93.95	5.62	56.22	41.75	92.9	75	125	93.52	0.459	20	
Cadmium	54	2.81	56.22	0.07295	95.9	75	125	54.77	1.42	20	
Chromium	79.28	2.81	56.22	22.02	102	75	125	79.99	0.886	20	
Lead	101.9	5.62	56.22	46.52	98.6	75	125	92.68	9.52	20	
Selenium	52.4	5.62	56.22	0	93.2	75	125	52.66	0.500	20	
Silver	5.294	2.81	5.622	0	94.2	75	125	5.396	1.91	20	

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Terra Tech EM Inc.
 Work Order: 0912570
 Project: Powder Springs Plating

ANALYTICAL QC SUMMARY REPORT

TestCode: Hexavalent Chromium SW7196

Sample ID: MB-122391	Sample Type: MBLK	Batch ID: 122391	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 161493
Client ID:	TestCode: Hexavalent Chromium	SW7196		Analysis Date: 12/10/2009	SeqNo: 3339375
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium, Hexavalent	BRL	1.00			

Sample ID: LCS-122391	Sample Type: LCS	Batch ID: 122391	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 161493
Client ID:	TestCode: Hexavalent Chromium	SW7196		Analysis Date: 12/10/2009	SeqNo: 3339376
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium, Hexavalent	91.56	1.00	100	0	91.6 80 120 0 0

Sample ID: 0912570-001AMS	Sample Type: MS	Batch ID: 122391	Units: mg/Kg-dry	Prep Date: 12/9/2009	RunNo: 161493
Client ID: PSP-S-11	TestCode: Hexavalent Chromium	SW7196		Analysis Date: 12/10/2009	SeqNo: 3339403
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium, Hexavalent	99.04	1.26	125.7	0	78.8 75 125 0 0

Sample ID: 0912570-001AMSD	Sample Type: MSD	Batch ID: 122391	Units: mg/Kg-dry	Prep Date: 12/9/2009	RunNo: 161493
Client ID: PSP-S-11	TestCode: Hexavalent Chromium	SW7196		Analysis Date: 12/10/2009	SeqNo: 3339405
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium, Hexavalent	103.1	1.28	128	0	80.5 75 125 99.04 4.03 20

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0912570
 Project: Powder Springs Plating

ANALYTICAL QC SUMMARY REPORT

TestCode: TOTAL MERCURY SW7471B

Sample ID: MB-122327	SampType: MBLK	Batch ID: 122327	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 161346
Client ID:	TestCode: TOTAL MERCURY SW7471B			Analysis Date: 12/8/2009	SeqNo: 3336407
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	BRL	0.100	0	0	0 0 0 0

Sample ID: MB-122298	SampType: MBLK	Batch ID: 122298	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 161382
Client ID:	TestCode: TOTAL MERCURY SW7471B			Analysis Date: 12/9/2009	SeqNo: 3337117
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	BRL	0.100	0	0	0 0 0 0

Sample ID: LCS-122327	SampType: LCS	Batch ID: 122327	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 161346
Client ID:	TestCode: TOTAL MERCURY SW7471B			Analysis Date: 12/8/2009	SeqNo: 3336409
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.3665	0.100	0.4	0	91.6 80 120 0 0

Sample ID: LCS-122298	SampType: LCS	Batch ID: 122298	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 161382
Client ID:	TestCode: TOTAL MERCURY SW7471B			Analysis Date: 12/9/2009	SeqNo: 3337118
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.3729	0.100	0.4	0	93.2 80 120 0 0

Sample ID: 0912570-001AMS	SampType: MS	Batch ID: 122327	Units: mg/Kg-dry	Prep Date: 12/8/2009	RunNo: 161346
Client ID:	TestCode: TOTAL MERCURY SW7471B			Analysis Date: 12/8/2009	SeqNo: 3336413
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.5203	0.136	0.5428	0	95.8 70 130 0 0

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0912570
 Project: Powder Springs Plating

ANALYTICAL QC SUMMARY REPORT

TestCode: TOTAL MERCURY SW7471B

Sample ID: 0912474-001AMS	SampType: MS	Batch ID: 122298	Units: mg/Kg-dry	Prep Date: 12/8/2009	RunNo: 161382					
Client ID:	TestCode: TOTAL MERCURY SW7471B			Analysis Date: 12/9/2009	SeqNo: 3337121					
Analyte	Result	RPT Limit	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.4852	0.108	0.4327	0	112	70	130	0	0	

Sample ID: 0912570-001AMSD	SampType: MSD	Batch ID: 122327	Units: mg/Kg-dry	Prep Date: 12/8/2009	RunNo: 161346					
Client ID: PSP-S-11	TestCode: TOTAL MERCURY	SW7471B		Analysis Date: 12/8/2009	SeqNo: 3336414					
Analyte	Result	RPT Limit	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.5297	0.135	0.5418	0	97.8	70	130	0.5203	1.79	30

Sample ID: 0912474-001AMSD	SampType: MSD	Batch ID: 122298	Units: mg/Kg-dry	Prep Date: 12/8/2009	RunNo: 161382					
Client ID:	TestCode: TOTAL MERCURY	SW7471B		Analysis Date: 12/9/2009	SeqNo: 3337122					
Analyte	Result	RPT Limit	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.4815	0.108	0.4327	0	111	70	130	0.4852	0.772	30

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		