

SEMI-ANNUAL PROGRESS REPORT #6

1071 HOWELL MILL ROAD ATLANTA, FULTON COUNTY, GEORIGA HSI SITE NO. 10637 (WELCOME YEARS, INC.)

Submitted To:

Georgia Environmental Protection Division Hazardous Waste Management Branch Suite 1154, East Tower 2 Martin Luther King Jr. Drive Atlanta, Georgia 30334

Prepared For:

Westbridge Partners & 1071 WB, LLC 1170 Howell Mill Road Atlanta, Georgia 30318

Prepared By:

Amec Foster Wheeler Environment & Infrastructure, Inc. 2677 Buford Highway, NE Atlanta, Georgia 30324

Project No. 6121-12-0124



October 15, 2015

Mr. David Reuland Unit Coordinator Environmental Protection Division Georgia Department of Natural Resources 2 Martin Luther King Jr. Drive, SE, Suite 1462 East Atlanta, Georgia 30334

RE: Semi-Annual Progress Report #6 1071 Howell Mill Road Atlanta, Georgia HSI Sub-Listed Site No. 10637 (Welcome Years, Inc.) Tax Parcel ID#17-0150-009-14

Dear Mr. Reuland:

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) respectfully submits this Progress Report #6 for the 1071 Howell Mill Road property in Atlanta, Fulton County, Georgia, on behalf of 1071 WB, LLC, an affiliate of Westbridge Partners. This progress report is required by the Voluntary Remediation Program (VRP) statute and requested by the Georgia Environmental Protection Division (EPD) in their comment letter dated October 15, 2012.

This report is for the exclusive use of Westbridge Partners and 1071 WB, LLC, and for regulatory submittal. If additional information is required, please contact Mr. Chuck Ferry (404) 817-0107 or by email at <u>chuck.ferry@amecfw.com</u>.

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc.

Steve Davenport Project Geologist

Senior Principal Engineer

CC:

Mr. Chris Faussemagne, Westbridge Partners Mr. John C. Spinrad, Arnall Golden Gregory LLP

Amec Foster Wheeler Environment and Infrastructure, Inc. **2677 Buford Hwy., Atlanta, Georgia 30324** Tel: (404) 873 4761 Fax: (404) 817 0207 www.amecfw.com

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1.0 PROJECT SUMMARY

The 1071 Howell Mill Road Site ("Site") is an approximate 0.9-acre parcel of land located in Atlanta, Fulton County, Georgia. The Site is identified on the Fulton County Tax Assessor's website as Tax Parcel ID 17-0150-009-14. Historically, the Site was undeveloped from at least 1938 until it was developed in 1951 with a commercial building and a small parking lot west of the building. The building was vacated in 2010.

1.1 REGULATORY BACKGROUND

The Georgia Environmental Protection Division (EPD) notified the former property owner, Mr. William Graham, Jr., that the Site may have been impacted by the historical placement of contaminated fill material. As such, the Site has been the subject of a number of environmental assessments conducted between 2003 and 2012, which revealed the presence of metals in soil, including: arsenic, barium, cadmium, chromium, and lead. Based on the soil data obtained in 2003, the Site was sub-listed on the Hazardous Site Inventory (HSI) as part of the Welcome Years HSI Site No. 10637 located to the north. Adjoining commercial properties to the north, east and south have also been sub-listed as part of the Welcome Years HSI Site No. 10637.

Groundwater data obtained on-Site identified several chlorinated volatile organic compounds (VOCs) and the metals barium, cadmium, chromium and lead. The metals detected in groundwater were at low concentrations and are consistent with naturally occurring levels. The presence of the chlorinated VOCs are interpreted to be from an upgradient off-site source.

A Voluntary Remediation Plan Application (VRPA), dated September 7, 2012, was submitted to Georgia Environmental Protection Division (EPD) to enter the Site into the Voluntary Remediation Program (VRP). In conjunction with the VRPA, Westbridge Partners submitted a Prospective Purchaser Corrective Action Plan (PPCAP) dated September 17, 2012, to enter the Site into Georgia's Brownfield Program. The Georgia EPD approved both the VRPA and PPCAP with conditions and comments presented in separate letters dated October 15, 2012 and accepted the Site into the VRP and Georgia's Brownfield Program.

EPD requested in its October 15, 2012 approval letter that semi-annual status reports be submitted beginning April 15, 2013 through April 15, 2017, to include an annual groundwater monitoring program. Four semi-annual reports have been issued, the first of which included a Monitoring and Maintenance Plan (MMP) that set forth certain engineering controls. Based on an EPD comment letter dated August 5, 2014, an annual inspection of engineering controls must be

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performed. In addition, site activities involving disturbance of impacted soils are performed under a Remediation Plan and an Environmental Management Plan (EMP).

1.2 REDEVELOPMENT PROJECT

1071 WB, LLC has engaged a contractor, Structor Group, to renovate the existing building. As shown on the attached Figure 1, the building on the southern half of the Site has been demolished and the area converted to a parking lot by overlaying asphalt on the remaining building floor slab as the pavement hardcover (see Photo 1). The remaining building on the northern half of the Site has been gutted for renovation, re-using the existing building super-structure and floor slab. A restaurant is under construction at the western end of the existing building. Limited slab penetrations have been performed to install utility stubs for the restaurant (see Photo 2). An additional 8-inch thick concrete slab will be placed to cover the existing slab (see Photo 3). A similar concrete over-slab is planned for the rest of the building at the time of future tenant renovations (see Photo 4).

Stormwater control measures have included the installation of a trench drain in the parking area and the installation of an underground detention vault in the western portion of the property. A small area in the northwest corner of the property has been landscaped.

Currently, a temporary fence and locked gate has been installed along the Howell Mill Road side of the Site, with permanent fencing elsewhere. Therefore, the Site is secure during the renovation process.

2.0 ACTIONS TAKEN SINCE LAST SUBMITTAL

The activities that have been performed since submittal of the Semi-Annual Progress Report #5 dated April 15, 2014 include replacement, development and sampling of monitoring wells MW-1R and MW-3.

2.1 MONITORING WELL REPLACEMENT

As indicated in the April 2015 Semi-Annual Progress Report, monitoring wells MW-1R and MW-3 were abandoned on October 28, 2014 to accommodate redevelopment. In order to continue groundwater sampling, new monitoring wells, designated MW-1R2 and MW-3R were installed September 28, 2015 at the approximate locations of the original wells (see Photos 5 & 6).

Soil borings were advanced to a depth of 35 feet using a direct push sampling rig and a groundwater monitoring well was installed in each boring. Monitoring well construction consisted of a 1-inch diameter PVC pile with the lower 20 feet slotted (0.01" slot). A filter pack consisting of bagged quartz sand was placed a around the screened section of each well. The remainder of the borehole annulus was backfilled to the surface with bentonite clay grout. The wells were finished with well caps and flush-mounted covers. Drilling spoils were containerized in a 55-gallon drum and staged on-site for disposal at a later date.

Soil boring logs with well construction diagrams are attached in Appendix A.

2.2 MONITORING WELL DEVELOPMENT AND SAMPLING

The monitoring wells were developed on September 29, 2015. Groundwater was removed from each well using a peristaltic pump until groundwater monitoring parameters including temperature, pH, specific conductance and turbidity stabilized. Monitoring well development records are included in Appendix B.

Groundwater samples were collected from each well on September 29, 2015, immediately following well development. The groundwater samples were collected in laboratory-provided containers, packed on ice and delivered under chain-of-custody protocol to Analytical Environmental Services, Inc. in Atlanta, Georgia for testing.

The groundwater samples were tested for volatile organic compounds (VOCs, SW-846 Test Method 8260B). The results of the monitoring event are summarized on the attached Table 2

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and Figure 1, which also summarizes previous groundwater testing data from wells MW-1R and MW-3. The laboratory report is attached in Appendix C.

Groundwater testing results from MW-1R2 exhibited tetrachloroethene at a concentration of 0.011 mg/L, slightly higher than the previously detected concentration in MW-1R of 0.0067 mg/L in November 2013. Chloroform and tetrachloroethene concentrations in MW-3R were detected at 0.0058 and 0.065 mg/L, slightly lower than the 0.013 and 0.0120 mg/L detected, respectively, in MW-3 in October 2014.

Following installation and stabilization of the groundwater levels, groundwater depths were measured in the two wells. A level survey was conducted to determine the well casing elevations relative to an on-site point with a known elevation. The depths to groundwater ranged from 23.30 feet in MW-1R2 to 23.82 feet in MW-3R, similar to the previous water table levels. A summary of the groundwater elevation data measured on September 29, 2015 is presented on Table 1.

2.3 LEASE SPACE PLUMBING

Penetrations of the existing floor slab have recently been made inside the building for installation of subsurface plumbing for future tenant use. Impacted soils are temporarily exposed at this time pending completion of the plumbing installation and pouring of the new concrete floor.

2.4 FILL PLACEMENT

Imported fill soils were placed on the western portion of the property between Howell Mill Road and the building prior to installation of landscaping. As discussed in Section 2.3 of Semi-Annual Progress Report #5, dated April 15, 2015, the soils from the borrow source were qualified based on testing for volatile organic compounds (VOCs, SW846 Method 8260B), semivolatile organic compounds (SVOCs, SW846 Method 8270D), RCRA Metals (SW846 Methods 6010C and 7471B), polychlorinated biphenyls (PCBs, SW842 Method 8082A) and pesticides (SW846, 8081B).

3.0 ROUTINE INSPECTION

Mr. Chuck Ferry of Amec Foster Wheeler visited the site on October 13, 2015 to conduct a routine Site inspection. The following conditions were observed as documented on the MMP checklist:

- The cover has been placed over the area west of the building along Howell Mill Road, including hard cover and landscaping.
- Impacted soils are temporarily exposed at the locations of the plumbing trenches in the currently vacant tenant space inside the rear portion of the building.

A copy of the Inspection and Maintenance Report is included in Appendix E. Photos of the excavation areas are included in Appendix D.

4.0 SUMMARY

The EMP and Remediation Plan were initiated following the start of site redevelopment activities. Limited cap-disturbing activities have begun and will continue periodically during the construction period projected through December 2015.

Monitoring wells MW-1R and MW-3 were properly abandoned in October 2014. Wells MW-1R2 and MW-3R were installed in September 2015 at the approximate locations of the former wells.

Testing of groundwater samples obtained from the two new wells indicated constituent concentrations similar to those previously detected in the former monitoring wells. Therefore, the groundwater condition remains consistent with an off-site source and below a level of concern for vapor intrusion into the building.

Soils inside the vacant tenant space at the rear of the building have been temporarily exposed for installation of subsurface plumbing. Following completion of the plumbing installation the plumbing trenches will be backfilled and a new concrete floor is to be poured inside the building. Therefore, the Type 5 RRS cap remains intact, except at the locations of the plumbing trenches which are under construction. There is no plan to remove soils from the project site.

Fill soils were placed on the site between the west end of the building and Howell Mill Road. The results of previous testing of soils from the borrow source indicated that material was acceptable for use on-site.

A breakdown of professional service hours with a description of the services provided is included in Appendix F.

GROUNDWATER SCIENTIST STATEMENT

I certify that I am a qualified groundwater scientist or engineer who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared in conjunction with others working under my direction.

Mr. Charles T. Ferry, P.E. Georgia Registration No. 10957



Amec Foster Wheeler Environment & Infrastructure, Inc.

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TABLES

FORMER SUNLOW, INC. 1071 HOWELL MILL ROAD ATLANTA, GEORGIA

TABLE 1 - SUMMARY OF WELL CONSTRUCTION/WATER LEVEL DATA

Wall ID	Measurement	Well Elevation,	Donth of Wall ET	Well Screen	Depth to	Groundwater
weirid	Date	FT*	Depth of well, Fi	Interval, FT	Water, FT	Elevation, FT
	7/3/2003				18.90	951.55
MW-1	6/6/2012	970.45	25	10-25	Dry	Dry @ 945.97
	7/16/2014				22.98	947.47
	7/5/2012				25.50	944.93
MW-1R	11/15/2013	970.43	34	24-34	22.87	947.56
	7/16/2014				22.50	947.93
MW-1R2	9/29/2015	970.84	35	20-35	23.30	947.54
	7/3/2003				21.04	947.19
MW-2	6/6/2012	968.23	25	19-25	Dry	Dry @ 944.03
	7/16/2014				23.82	944.41
	6/6/2012				26.13	942.62
MM/ 2	11/15/2013	069 75	22	22.22	23.80	944.95
10100-3	7/16/2014	900.75	32	22-32	23.57	945.18
	10/10/2014				24.25	944.50
MW-3R	9/29/2015	968.54	35	20-35	23.82	944.72
NA\\\/_A	6/6/2012	068 17	32	22-32	24.84	943.33
10100-4	7/16/2014	500.17	52	22-52	23.66	944.51
	6/6/2012	067.56	22	22.22	25.87	941.69
MVV-5	7/16/2014	7/16/2014 967.56	32	22-32	23.97	943.59

* Relative to benchmark elevation of 968.38 feet at northwest corner building entrance

FORMER SUNLOW, INC. 1071 HOWELL MILL ROAD ATLANTA, GEORGIA

TABLE 2 - SUMMARY OF GROUNDWATER TESTING RESULTS

Sample ID:	MW-1R	MW-1R	MW-1R	MW-1R2	MW-3	MW-3	MW-3	MW-3R
Sample Date:	7/5/2012	11/15/2013	10/10/2014	9/29/2015	6/1/2012	11/15/2013	10/10/2014	9/29/2015
Sample Matrix:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Volatile Organic Compounds Chloroform Tetrachloroethene	(VOCs) <0.005 <0.005	<0.005 0.0067	NT NT	<0.005 0.011	0.04 0.12	0.19 0.15	0.013 0.12	0.0058 0.065

Notes:

U = Constituent was not detected at the reporting limit NT = Not Tested due to well covered by construction material

FIGURE





	LEGEND
•	MONITORING WELL LOCATION
	RESULTS REPORTED IN MILLIGRAMS PER LITER (mg/L)

LL RC RGIA)AD		SUMMARY TES	' OF GROU TING RESU	NDWATER LTS
Date		Scale	Drawn By	Approved By	Figure
OCT.	2015	AS SHOWN	TG	SD	1

APPENDIX A SOIL BORING LOGS WITH WELL CONSTRUCTION DIAGRAMS

D E P T H	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF	L E G E N	E L E V	I D E	AM T Y P	PLES N-COUNT		PL (%))	NM ▲ FIN	1 (%) O NES (%	%) f)	LL (%)
(ft) - 0	SYMBOLS AND ABBREVIATIONS USED BELOW. FILL - Reddish brown to tan slightly micaceous fine sandy	D	(ft) 	T	E.	1st 2nd 3rd	1	0 20	30	40	50 6	0 70	80 9	0_100
_ _ _ 5	- SILT.		 				-							
- 10	RESIDUAL - Red brown to tan slightly micaceous fine sandy SILT.													
- - 15 -	- - 													
- - 20 -	 		 				-							
- 25			 											
30														
40			 					-				-	-	
	-		 				-	0 20	30	40 5	50 60) 70	80 9	
DRILL EQUIF	ER: Atlas Geosampling MENT: Power Probe				so	IL TEST	BO	RIN	G I	REC	ORI)		1
METH HOLE REMA Prepare	OD: Direct Push DIA.: 2.5 inches RKS: Depth to groundwater measured on 9/29/15 at 23.30 feet. ed by: S. Davenport Reviewed by: C. Ferry		ORINO ROJEC OCATI RILLE ROJEC	G NO. CT: CON: D: CT NO	.: D.:	MW-1R2 1071 Hoy Atlanta, C Septembe 6121-12-	well Jeo er 29	Mil rgia 9, 20 4	l 15			PA	GE_1	OF 1)
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D E P	SOIL CLASSIFICATION AND REMARKS	LEC	E L	S. I	AM	PLES n-count	I	PL (%	ó)	N	M (%)		LL	, (%) D	
$\begin{bmatrix} 1 \\ T \\ H \\ (ft) \end{bmatrix}$	SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	E N D	V (ft)	D E N	Ý P E	lst 6" 2nd 6" 3rd 6"				▲ Fi ● S	NES (PT (bj	%) of)			
	FILL - Reddish brown to tan slightly micaceous fine sandy SILT.			1					0 30	40	50 6) 80) 90	
	RESIDUAL - Red brown to tan slightly micaceous fine sandy SILT.						-								
	Tan, pink and black slightly micaceous fine to medium sandy SIL /T.	Z					-								
	Boring terminated at 35 feet.													-	
- 40								0 2	0 30	40	50 6	50 70) 80) 90	
DRILLE EQUIPM METHO HOLE D REMAR Prepared	 R: Atlas Geosampling IENT: Power Probe D: Direct Push IA.: 2.5 inches KS: Depth to groundwater measured on 9/29/15 at 23.82 feet. by: S. Davenport Reviewed by: C. Ferry CORD IS A REASONABLE INTERPRETATION OF FACE CONDITIONS AT THE EXPLORATION DN. SUBSURFACE CONDITIONS AT OTHER	B P L D P	ORING ROJEG OCAT RILLE ROJEG	G NO. CT: ION: D: CT NC	SO .: D.:	IL TEST MW-3R 1071 Hov Atlanta, (Septembe 6121-12-(BO well Geo or 28 012	Mi rgia 3, 2 4	NG 11 015	REC	COR	D PA	\GI	E 1	OF 1
INTERFA TRANSI	NIS AND AT OTHER TIMES MAY DIFFER. ACES BEWEEN STRATA ARE APPROXIMATE. FIONS BETWEEN STRATA MAY BE GRADUAL.						ame fost whe	èr nier							

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APPENDIX B WELL DEVELOPMENT RECORDS

Attachment 4.4

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					WE	LL PURGIN	G - FIELD \	NATER QL	JALITY ME	ASUREMENTS	S FORM		
Location:	ation:					Identify Me (e.g. Top o	easuring Po of Casing)	int (MP):	40	٢			page of
Well ID:	m	WIK	, d		_	Depth to S	creen belov	w MP:	20	of screen	30	of screen	
Field Samplin	g Personnel:	&	×770)	- - -	Pump Inta Purging De	ke at (ft. be evice (Pumj	low MP): p Type):	Top f	28	Bottom		-
Date	Time	Depth to Water Below MP	Purge Rate	рН	Spec Cond.	Turbidity	DO Flow cell	Temp.	Redox Potential	Cum. Volume Purged	CHEMetrics DO mg/L	Hach Ferrous Iron	Comments
abalis	24 hr	ft 12 20	mL/min	pH units	mS/cm	NTUs	mg/L	2117	mV	gallons	(low)	mg/L	· · · · · · · · · · · · · · · · · · ·
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	1235	1046	300	5.37	.20)	72	.99	2151	- 88				Purfe AlGAL
	12.40	24.02	300	5.37	,305	50	.92	21.48	-91				BeFrore Stant m
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Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings): ±0.1 for pH

If stabilization does not occur within 2 hours, contact Site Manager for action. If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample. +0.1 for pH +10 mV for redox +3% for specific cond. +10% for DO <20 NTUs for turbidity NA for temperature

040002.03

Attachment 4.4

DTN 2382 DTB 3480

					VVEI	LL PURGIN	G - FIELD	WATER QU		ROOMEINIEN			
ocation:		0				Identify Me (e.g. Top o	easuring Po of Casing)	oint (MP):	To	6C			page of
Vell ID:	MK	13K	·		-	Depth to S	Screen belo	w MP;	20	of screen	3J Bottom	ofscreen	
eld Samplir	ng Personnel:				- 	Pump Inta Purging De	ke at (ft. be evice (Pum	low MP): p Type):		28. 		laddor nump, efc.)	-
Date	Time	Depth to Water Below MP	Purge Rate	рН	Spec Cond.	Turbidity	DO Flow cell	Temp.	Redox Potential	Cum Volume Purged	CHEMetrics DO mg/L	Hach Ferrous Iron	Comments
+	24 hr	ft	mL/min	pH units	mS/cm	NTUs	mg/L	°C	mV	gallons	(low)	mg/L	<u> </u>
29/15	1115	23.82	220	6.01	.300	225	3.17	21.11	-57		<u> </u>		
-	1130	24.91	250	6.04	.259	231	240	21.06	-66				
	1105	25.02	250	5.94	.293	187	1.89	20.80	-80				Pupsel 16HC
	1130	25.40	250	5.89	.290	115	1.88	20.78	-95				before standing
	1135	25.40	250	5.53	3.92	88	1.80	2014	-98				Renday S.
	1/40	25.42	250	5.91	.295	31	1.86	20.66	-100				
	1145	25.41	250	5.89	.294	12	1.91	20.65	-98				
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WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Notes:

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Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings): ±0.1 for pH

If stabilization does not occur within 2 hours, contact Site Manager for action. If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.
 ±10 nV for redox

 ±3% for specific cond.

 ±10% for DO

 <20 NTUs for turbidity</td>

 NA for temperature

040002.03

APPENDIX C LABORATORY REPORTS

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



October 01, 2015

Steve Davenport AMEC E&I, Inc. - Plasters 2677 Buford Highway NE Atlanta GA 30324

TEL: (404) 788-7909 FAX: (404) 817-0183

RE: 1071 Howell Mill Rd.

Dear Steve Davenport:

Order No: 1509P25

Analytical Environmental Services, Inc. received 3 samples on 9/29/2015 2:20:00 PM for the analyses presented in 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 07/01/15-06/30/16. -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

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

IDana) Pacurar

Ioana Pacurar Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

Work Order: 150 Page (of (

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

AES TEL: (770) 457-8177 / TOLL-FREE (800										Date:	Page (of					
COMPANY: Amer Fostar Wheeler	ADDRESS: 2C7	7 , Bu	Fal	Hu	·				ANAI	.YSIS	REQU	ESTED				
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3: V V	₩ ₩	SEND I	A-+ EPOR	1710: «	1 5.T	<u></u> Z <u>4</u> J	A Enp	nf /	C.J	+ sry	2 Business Day Rush Next Business Day Rush					
SPECIAL INSTRUCTIONS/COMMENTS:	OUT /	SHIPMEN /	T METHO VIA:	DD		INVOIC (IF DIF	E TO: TEREN	T FROM	f ABOV	/E)	•				O Same Day Rush (auth req O Other)
· · ·		/ NT FedEx U NHOUND O	VIA: PS MAI THER	IL COUR	IER	R STATE PROGRAM (if any): _ E-mail? Y / N; Fax?							STATE PROGRAM (if any): E-mail? Y/N; Fax? Y/N			
SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CO SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETIC	I OKE NSIDERED AS R IN OF REPORT I	ECEIVED ON T	HE NEX R ARRA	T BUSIN NGEMEN	ESS DAY; I TS ARE M	F NO TA	* T IS M	ARKEI	ON C	OC AI	PO S WIL	" L PROC	EED AS S	TANDARD	DATA PACKAGE: I II III TAT.	<u>IV</u>
MATRIX CODES: A = Air GW = Groundwater SE = Sedim	ent SO = Soil	SW = Surface W	'ater W	l = Water (id + ice	Blanks) D S/M+L = Sor	W = Drin dium Bisu	king W	ater (Bla athanol 4	nks) (O = O	ner (spe	ify) W	W = Wast	e Water	Hage 2 of 13	

Analytical Environmental Services, Inc						Date:	1-Oct-15	
Client:AMEC E&I, Inc PlastersProject Name:1071 Howell Mill Rd.Lab ID:1509P25-001				Client Sar Collection Matrix:	nple ID: Date:	MW1R2 9/29/201 Groundw	5 12:50:00 PM vater	
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SV	V5030B)			
1,1,1-Trichloroethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
1,1-Dichloroethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
1,1-Dichloroethene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	CH
1.2-Dibromo-3-chloropropane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	CH
1.2-Dibromoethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	CH
1,2-Dichloroethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	CH
1.2-Dichloropropane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
1.3-Dichlorobenzene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
1.4-Dichlorobenzene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	CH
2-Butanone	BRL	50		ug/L	213644	1	09/30/2015 03:43	СН
2-Hexanone	BRL	10		ug/L	213644	1	09/30/2015 03:43	СН
4-Methyl-2-pentanone	BRL	10		ug/L	213644	1	09/30/2015 03:43	CH
Acetone	BRL	50		ug/L	213644	1	09/30/2015 03:43	СН
Benzene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Bromodichloromethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	CH
Bromoform	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Bromomethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Carbon disulfide	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Carbon tetrachloride	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Chlorobenzene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Chloroethane	BRL	10		ug/L	213644	1	09/30/2015 03:43	СН
Chloroform	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Chloromethane	BRL	10		ug/L	213644	1	09/30/2015 03:43	СН
cis-1 2-Dichloroethene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
cis-1.3-Dichloropropene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Cyclohexane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Dibromochloromethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Dichlorodifluoromethane	BRL	10		ug/L	213644	1	09/30/2015 03:43	СН
Ethylbenzene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Freon-113	BRL	10		ug/L	213644	1	09/30/2015 03:43	СН
Isopropylbenzene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
m n-Xylene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Methyl acetate	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Methyl tert-butyl ether	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Methylcyclohexane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
Methylene chloride	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
o-Xvlene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН
J				-				

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Page 3 of 13

Analytical Environmental Services, Inc						Date:	1-Oct-15			
Client:AMEC E&I, Inc PlastersProject Name:1071 Howell Mill Rd.Lab ID:1509P25-001				Client San Collection Matrix:	ıple ID: Date:	MW1R2 9/29/2013 Groundw	5 12:50:00 PM ater	Л		
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst		
TCL VOLATILE ORGANICS SW8260B				(SV	(5030B)					
Styrene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН		
Tetrachloroethene	11	5.0		ug/L	213644	1	09/30/2015 03:43	СН		
Toluene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН		
trans-1,2-Dichloroethene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН		
trans-1,3-Dichloropropene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН		
Trichloroethene	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН		
Trichlorofluoromethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:43	СН		
Vinyl chloride	BRL	2.0		ug/L	213644	1	09/30/2015 03:43	СН		
Surr: 4-Bromofluorobenzene	89.2	70.6-123		%REC	213644	1	09/30/2015 03:43	СН		
Surr: Dibromofluoromethane	89.6	78.7-124		%REC	213644	1	09/30/2015 03:43	СН		
Surr: Toluene-d8	96.8	81.3-120		%REC	213644	1	09/30/2015 03:43	СН		

* Value exceeds maximum contaminant level

BRL Below reporting limit

- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical En	vironmental Services, Inc						Date:	1-Oct-15	
Client: Project Name: Lab ID:	AMEC E&I, Inc Plasters 1071 Howell Mill Rd. 1509P25-002				Client Sar Collection Matrix:	nple ID: Date:	MW3R 9/29/201: Groundw	5 11:50:00 AM ater	
Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATII	LE ORGANICS SW8260B				(SV	V5030B)			
1,1,1-Trichloro	bethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
1,1,2,2-Tetrach	loroethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	CH
1,1,2-Trichloro	bethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
1,1-Dichloroet	hane	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
1,1-Dichloroet	hene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
1,2,4-Trichloro	obenzene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
1,2-Dibromo-3	-chloropropane	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
1,2-Dibromoet	hane	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
1,2-Dichlorobe	enzene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
1,2-Dichloroet	hane	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
1,2-Dichloropr	opane	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
1,3-Dichlorobe	enzene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
1,4-Dichlorobe	enzene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
2-Butanone		BRL	50		ug/L	213644	1	09/30/2015 03:19	СН
2-Hexanone		BRL	10		ug/L	213644	1	09/30/2015 03:19	СН
4-Methyl-2-pe	ntanone	BRL	10		ug/L	213644	1	09/30/2015 03:19	СН
Acetone		BRL	50		ug/L	213644	1	09/30/2015 03:19	СН
Benzene		BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Bromodichloro	omethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Bromoform		BRL	5.0		ug/L	213644	1	09/30/2015 03:19	CH
Bromomethan	e	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Carbon disulfi	de	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	CH
Carbon tetrach	loride	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Chlorobenzene	2	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Chloroethane		BRL	10		ug/L	213644	1	09/30/2015 03:19	СН
Chloroform		5.8	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Chloromethan	e	BRL	10		ug/L	213644	1	09/30/2015 03:19	СН
cis-1,2-Dichlor	roethene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
cis-1,3-Dichlor	ropropene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Cyclohexane		BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Dibromochloro	omethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Dichlorodifluo	romethane	BRL	10		ug/L	213644	1	09/30/2015 03:19	СН
Ethylbenzene		BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Freon-113		BRL	10		ug/L	213644	1	09/30/2015 03:19	СН
Isopropylbenze	ene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
m,p-Xylene		BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Methyl acetate	:	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Methyl tert-bu	tyl ether	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Methylcyclohe	exane	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Methylene chl	oride	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
o-Xylene		BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Page 5 of 13

Analytical Environmental Services, Inc						Date:	1-Oct-15	
Client:AMEC E&I, Inc PlastersProject Name:1071 Howell Mill Rd.Lab ID:1509P25-002				Client San Collection Matrix:	iple ID: Date:	MW3R 9/29/2015 Groundw	5 11:50:00 AM ater	
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW	/5030B)			
Styrene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Tetrachloroethene	65	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Toluene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
trans-1,2-Dichloroethene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
trans-1,3-Dichloropropene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Trichloroethene	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Trichlorofluoromethane	BRL	5.0		ug/L	213644	1	09/30/2015 03:19	СН
Vinyl chloride	BRL	2.0		ug/L	213644	1	09/30/2015 03:19	СН
Surr: 4-Bromofluorobenzene	83	70.6-123		%REC	213644	1	09/30/2015 03:19	СН
Surr: Dibromofluoromethane	95.4	78.7-124		%REC	213644	1	09/30/2015 03:19	СН
Surr: Toluene-d8	96.7	81.3-120		%REC	213644	1	09/30/2015 03:19	СН

* Value exceeds maximum contaminant level

BRL Below reporting limit

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- N Analyte not NELAC certified
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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical En	vironmental Services, Inc						Date:	1-Oct-15	
Client: Project Name:	AMEC E&I, Inc Plasters 1071 Howell Mill Rd.				Client Sar Collection	nple ID: Date:	TRIP BL 9/29/2015	ANK 5	
Lad ID:	1509P25-005		Reporting		Matrix:		Dilution	ater	
Analyses		Result	Limit	Qual	Units	BatchID	Factor	Date Analyzed	Analyst
TCL VOLATII	LE ORGANICS SW8260B				(SV	V5030B)			
1,1,1-Trichloro	bethane	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
1,1,2,2-Tetrach	loroethane	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
1,1,2-Trichloro	bethane	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
1,1-Dichloroet	hane	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
1,1-Dichloroet	hene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
1,2,4-Trichloro	benzene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
1,2-Dibromo-3	-chloropropane	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
1,2-Dibromoet	hane	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
1,2-Dichlorobe	enzene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	CH
1,2-Dichloroet	hane	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
1,2-Dichloropr	opane	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
1,3-Dichlorobe	enzene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
1,4-Dichlorobe	enzene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	CH
2-Butanone		BRL	50		ug/L	213644	1	09/29/2015 21:37	СН
2-Hexanone		BRL	10		ug/L	213644	1	09/29/2015 21:37	СН
4-Methyl-2-per	ntanone	BRL	10		ug/L	213644	1	09/29/2015 21:37	СН
Acetone		BRL	50		ug/L	213644	1	09/29/2015 21:37	СН
Benzene		BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Bromodichloro	omethane	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Bromoform		BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Bromomethane	2	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Carbon disulfic	le	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Carbon tetrach	loride	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Chlorobenzene		BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Chloroethane		BRL	10		ug/L	213644	1	09/29/2015 21:37	СН
Chloroform		BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Chloromethane	2	BRL	10		ug/L	213644	1	09/29/2015 21:37	СН
cis-1 2-Dichlor	roethene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
cis-1 3-Dichlor	copropene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Cyclohexane	opropene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Dibromochloro	omethane	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Dichlorodifluo	romethane	BRL	10		ug/L	213644	1	09/29/2015 21:37	СН
Ethylbenzene	Tomethate	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Erreon-113		BRL	10		ug/L	213644	1	09/29/2015 21:37	СН
Isopropylbenze	ana	BRI	5.0		ug/L	213644	1	09/29/2015 21:37	СН
m n-Xylene		BRI	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Methyl acetata		BRI	5.0		11g/L	213044	1	09/29/2015 21:57	СН
Methyl tort but	tyl ether	RRI	5.0		110/I	213044	1	09/29/2015 21:57	СЧ
Methylovalaha	iyi culci	BDI	5.0		110/I	213044	1	09/29/2015 21.37	СН
Mothylena chi		DKL	5.0		ug/L 110/Г	213044	1	00/20/2015 21.37	
vieuryiene chio	JIIUC	DKL	5.0		ug/L	213044	1	09/29/2013 21.37	СП
o-Ayiene		DKL	5.0		ug/L	213044	1	07/29/2013 21:3/	СН

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix

Narr See case narrative

- NC Not confirmed
- < Less than Result value

J Estimated value detected below Reporting Limit

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Analytical Environmental Services, Inc						Date:	1-Oct-15	
Client:AMEC E&I, Inc PlastersProject Name:1071 Howell Mill Rd.Lab ID:1509P25-003				Client San Collection Matrix:	iple ID: Date:	TRIP BL 9/29/2015 Groundw	ANK 5 ater	
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SV	/5030B)			
Styrene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	СН
Tetrachloroethene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	CH
Toluene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	CH
Trichloroethene	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	CH
Trichlorofluoromethane	BRL	5.0		ug/L	213644	1	09/29/2015 21:37	CH
Vinyl chloride	BRL	2.0		ug/L	213644	1	09/29/2015 21:37	CH
Surr: 4-Bromofluorobenzene	84.4	70.6-123		%REC	213644	1	09/29/2015 21:37	CH
Surr: Dibromofluoromethane	87.8	78.7-124		%REC	213644	1	09/29/2015 21:37	СН
Surr: Toluene-d8	90.1	81.3-120		%REC	213644	1	09/29/2015 21:37	CH

* Value exceeds maximum contaminant level

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Repeipt Checklist

Client_AMEC		Work Order Number
Checklist completed by <u>Minimum Auror</u> Signature Dat	<u>9/39/</u>	aor-
Carrier name: FedEx UPS Courier Client U	S Mail Othe	r
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? (0°≤6°C)	*Yes	No
Cooler #1 3.19 Cooler #2 Cooler #3	Cooler #4 _	Cooler#5 Cooler #6
Chain of custody present?	Yes L	No
Chain of custody signed when relinquished and received?	Yes 2	No
Chain of custody agrees with sample labels?	Yes L	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 i	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 su	ibmitted	Yes No
Water - pH acceptable upon receipt?	Yes -	No Not Applicable
Adjusted?	Che	cked by
Sample Condition: Good Other(Explain)		
(For diffusive samples or AIHA lead) Is a known blank includ	led? Yes	No
See Case Narrative for resolution of the Non-Conformance	e.	
* Samples do not have to comply with the given range for certain parameters.		
\\Aes_server\l\Sample Receipt\My Documents\COCs and pH .	Adjustment She	et\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Client:AMEC E&I, Inc. - PlastersProject Name:1071 Howell Mill Rd.Workorder:1509P25

ANALYTICAL QC SUMMARY REPORT

BatchID: 213644

Sample ID: MB-213644 SampleType: MBLK	Client ID: TestCode: TC	CL VOLATILE ORGA	NICS SW8260	В	Un Bat	its: ug/L tchID: 213644	Prej Ana	p Date: alysis Date:	09/28/2015 09/29/2015	R Se	un No: 30084 eq No: 64319	3 39
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	TVal %F	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0										
1,1,2,2-Tetrachloroethane	BRL	5.0										
1,1,2-Trichloroethane	BRL	5.0										
1,1-Dichloroethane	BRL	5.0										
1,1-Dichloroethene	BRL	5.0										
1,2,4-Trichlorobenzene	BRL	5.0										
1,2-Dibromo-3-chloropropane	BRL	5.0										
1,2-Dibromoethane	BRL	5.0										
1,2-Dichlorobenzene	BRL	5.0										
1,2-Dichloroethane	BRL	5.0										
1,2-Dichloropropane	BRL	5.0										
1,3-Dichlorobenzene	BRL	5.0										
1,4-Dichlorobenzene	BRL	5.0										
2-Butanone	BRL	50										
2-Hexanone	BRL	10										
4-Methyl-2-pentanone	BRL	10										
Acetone	BRL	50										
Benzene	BRL	5.0										
Bromodichloromethane	BRL	5.0										
Bromoform	BRL	5.0										
Bromomethane	BRL	5.0										
Carbon disulfide	BRL	5.0										
Carbon tetrachloride	BRL	5.0										
Chlorobenzene	BRL	5.0										
Chloroethane	BRL	10										
Chloroform	BRL	5.0										
Chloromethane	BRL	10										

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less 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

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Analytical Environmental Services, Inc

Client:AMEC E&I, Inc. - PlastersProject Name:1071 Howell Mill Rd.Workorder:1509P25

ANALYTICAL QC SUMMARY REPORT

BatchID: 213644

Sample ID: MB-213644 SampleType: MBLK	Client ID: TestCode: To	CL VOLATILE ORGA	NICS SW82601	В	Un Bat	its: ug/L tchID: 213644	Prej Ana	Date: 09/28 Ilysis Date: 09/29	/2015 F /2015 S	Run No: 300843 Seq No: 643193	3 39
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	41.41	0	50.00		82.8	70.6	123				
Surr: Dibromofluoromethane	48.92	0	50.00		97.8	78.7	124				
Surr: Toluene-d8	46.14	0	50.00		92.3	81.3	120				

B Analyte detected in the associated method blank Qualifiers: > Greater than Result value < Less than Result value 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 Page 11 of 13 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client:AMEC E&I, Inc. - PlastersProject Name:1071 Howell Mill Rd.Workorder:1509P25

ANALYTICAL QC SUMMARY REPORT

BatchID: 213644

Sample ID: LCS-213644	Client ID:				Uni	its: ug/L	Pr	ep Date: 0	9/28/2015	Run No: 300975	
SampleType: LCS	TestCode:	TCL VOLATILE ORGA	NICS SW82601	3	Bat	chID: 213644	Ar	nalysis Date: 0)9/29/2015	Seq No: 6432549	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD Limit Qual	
1,1-Dichloroethene	57.58	5.0	50.00		115	64.2	137				
Benzene	49.52	5.0	50.00		99.0	72.8	128				
Chlorobenzene	52.26	5.0	50.00		105	72.3	126				
Toluene	48.13	5.0	50.00		96.3	74.9	127				
Trichloroethene	45.94	5.0	50.00		91.9	70.5	134				
Surr: 4-Bromofluorobenzene	41.57	0	50.00		83.1	70.6	123				
Surr: Dibromofluoromethane	49.49	0	50.00		99.0	78.7	124				
Surr: Toluene-d8	46.90	0	50.00		93.8	81.3	120				
Sample ID: 1509J70-003AMS SampleType: MS	Client ID: TestCode:	TCL VOLATILE ORGA	NICS SW82601	3	Uni Bat	its: ug/L chID: 213644	Pr Ar	ep Date: 0 nalysis Date: 0)9/28/2015)9/29/2015	Run No: 300975 Seq No: 6435079	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD Limit Qual	
1,1-Dichloroethene	70.33	5.0	50.00		141	60.5	156				
Benzene	57.19	5.0	50.00		114	70	135				
Chlorobenzene	57.44	5.0	50.00		115	70.5	132				
Toluene	53.01	5.0	50.00		106	70.5	137				
Trichloroethene	52.12	5.0	50.00		104	71.8	139				
Surr: 4-Bromofluorobenzene	40.48	0	50.00		81.0	70.6	123				
Surr: Dibromofluoromethane	52.59	0	50.00		105	78.7	124				
Surr: Toluene-d8	46.99	0	50.00		94.0	81.3	120				
Sample ID: 1509J70-003AMSD SampleType: MSD	Client ID: TestCode:	TCL VOLATILE ORGA	NICS SW82601	3	Uni Bat	its: ug/L chID: 213644	Pr Ar	ep Date: 0 nalysis Date: 0)9/28/2015)9/29/2015	Run No: 300975 Seq No: 6435080	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD Limit Qual	
1,1-Dichloroethene	68.26	5.0	50.00		137	60.5	156	70.33	2.99	20	
Benzene	56.41	5.0	50.00		113	70	135	57.19	1.37	20	
Qualifiers: > Greater than Result value BRL Below reporting limit J Estimated value detector Rpt Lim Reporting Limit	ie 2d below Reporting	Limit	< Less E Estim N Analy S Spike	than Result value ated (value above quantit /te not NELAC certified Recovery outside limits of	ation range) due to matrix		B H R	Analyte detected in Holding times for p RPD outside limits	the associated method reparation or analysis e due to matrix	^{blank} xceeded Page 12 of 13	

Client:AMEC E&I, Inc. - PlastersProject Name:1071 Howell Mill Rd.Workorder:1509P25

ANALYTICAL QC SUMMARY REPORT

BatchID: 213644

Sample ID: 1509J70-003AMSD	Client ID:				Uni	ts: ug/L	Prep	Date: 09/28	/2015	Run No: 300975
SampleType: MSD	TestCode: TC	L VOLATILE ORGA	NICS SW8260H	3	Bate	chID: 213644	Ana	lysis Date: 09/29/	/2015	Seq No: 6435080
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chlorobenzene	56.35	5.0	50.00		113	70.5	132	57.44	1.92	20
Toluene	52.46	5.0	50.00		105	70.5	137	53.01	1.04	20
Trichloroethene	47.71	5.0	50.00		95.4	71.8	139	52.12	8.84	20
Surr: 4-Bromofluorobenzene	39.38	0	50.00		78.8	70.6	123	40.48	0	0
Surr: Dibromofluoromethane	51.02	0	50.00		102	78.7	124	52.59	0	0
Surr: Toluene-d8	47.36	0	50.00		94.7	81.3	120	46.99	0	0

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

- < Less 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

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APPENDIX D PHOTOGRAPHS





Photo 1. View of asphalt parking over southern half of site.



Photo 2. View of interior of restaurant space with plumbing trenches and stub-ups.

Amec Foster Wheeler Environment & Infrastructure, Inc.





Photo 3. View of plumbing trench inside future tenant space.



Photo 4. View of interior future tenant space in east end of building.





Photo 5. View of installation of monitoring well MW-1R2 in progress. Note fence and gate along Howell Mill Road.



Photo 6. View of installation of MW-3R in progress.

Amec Foster Wheeler Environment & Infrastructure, Inc.

APPENDIX E INSPECTION AND MAINTENANCE REPORT

INSPECTION ITEM OBSERVATION CONDITION COMMENTS COMMENTS TYPE 5 RRS COMPLIANCE No Na Na In In In Indicate Location) TYPE 5 RRS COMPLIANCE X No Na Na In Indicate Location) Barrier Penetration Performed X X Na Na Restrict Penetrations resuffaced with concrete, clean borrow soil on the penetration and yet completion of construction of the penetrational controls maintained X X X Na	INSPECTION ITEM OBSERVATION CONDITION COMMENTS TYPE 5 RRS COMPLANCE ves No NA MN IA (Indicate Location) TYPE 5 RRS COMPLANCE x No NA MN IA (Indicate Location) Barrier Penetration Performed x hand its pended x hand its pended (Indicate Location) Barrier Penetration Performed x hand its pended x hand its pended (Indicate Location) Institutional Controls Maintained x hand its pended complete. Fenant space plumbing to be addressed. SURFICIAL BARRIER x x N Penetrations for tenant space plumbing to be addressed. SURFICIAL BARRIER x N No clean soil barrier treplaced over location of underground detertion val. SURFICIAL BARRIER x No No clean soil barrier has been breached. ODMER OBSERVATIONS X Penetrations for tenant space plumbing to be addressed. OTHER OBSERVATIONS X No clean soil barrier has been breached. DATE OF INSPECTION October 13, 2015 INSPECTOR <th>INSPECTION ITEM OBSERVATION CONNENTS TYPE 5 RRS COMPLIANCE viss No NA NI IA NI IA COMMENTS COMMENTS Indicate Location) Indicate Location) Indicate Location) Indicate Location) Indicate Location Indicate Location) Indicate Location Indicate Location) Indicate Location Indicate Location) Indicate Location Indicate Location</th> <th>INSPECTION ITEM OBSERVATION CONDITION CONDITION COMMENTS COMMENTS TYPE 5 RRS COMPLANCE Ves No NA MN IA MN IA MI IA COMMENTS COMMENTS Commental control Control Contal control Contal control Contal control Contal contactor Contactor Contaconton Contacton Conta</th> <th></th> <th></th> <th>1071 HO</th> <th>WELL M spection</th> <th>ILL ROAI</th> <th>0, ATLANTA, GEORGIA itenance Report</th>	INSPECTION ITEM OBSERVATION CONNENTS TYPE 5 RRS COMPLIANCE viss No NA NI IA NI IA COMMENTS COMMENTS Indicate Location) Indicate Location) Indicate Location) Indicate Location) Indicate Location Indicate Location) Indicate Location Indicate Location) Indicate Location Indicate Location) Indicate Location	INSPECTION ITEM OBSERVATION CONDITION CONDITION COMMENTS COMMENTS TYPE 5 RRS COMPLANCE Ves No NA MN IA MN IA MI IA COMMENTS COMMENTS Commental control Control Contal control Contal control Contal control Contal contactor Contactor Contaconton Contacton Conta			1071 HO	WELL M spection	ILL ROAI	0, ATLANTA, GEORGIA itenance Report
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APPENDIX F SUMMARY OF PROFESSIONAL HOURS

Charles T. Ferry, P.E. Summary of Hours and Services During 7th Semi-Annual Progress Period Former Sunlow, Inc. 1071 Howell Mill Road, Atlanta, Georgia HSI Site No. 10637

Summary of Hours for Voluntary Remediation Program Activities

(1) Prepare October 15 Semi-Annual VRP Progress Report 4.0 hours invoiced between 5/1/15 and10/15/15