	DATE	1 September 2015						
	DAY	S	М	Т	W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Over	cast	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-	70	70-85	85-	up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hig	gh	Repo	ort No.	37
CONTRACT: EP-S4-08-03	- HUMIDITY	Dry	Mod.	Hun	nid			

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area

### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP026, IP252, IP138, IP147, IP146, and IP162.
- List of partially completed points as of 8/31: IP006, IP042, IP058, IP070, IP082, IP117, IP195, IP207, IP210, IP215, IP222, IP180, IP108, and IP167.
- Total of injections points completed to date: 172 of 254.

### **PERSONNEL ON-SITE:**

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech Mitch Issacson
- GRU John Herbert

### WORK PERFORMED:

Site Weather – Warm and humid, 85°F, overcast with rain.

- 0730 Crews abandoning points and moving mixing trailer.
- 0830 Trailer has been moved. Abandonment of points continues. Injections ongoing at IP026.
- 1000 Injections complete at IP026. Injections ongoing at IP042.
- 1100 Injections ongoing at IP207 and IP042, John Herbert (GRU) visits site.
- 1115 Generator down at trailer injecting at IP042. Injections stopped at IP042 until generator can be repaired.
- 1200 Injections stopped at IP207 due to slight daylighting around rods. Moving to IP138, injections continue at IP042.
- 1330 Injections complete at IP138, injections stopped at IP042 (IP042 incomplete). Injections ongoing at IP146 and IP252.
- 1500 Work stopped due to weather, injections complete at IP146.
- 1530 Work stopping for rest of day. Injections completed at IP147.

### **QUALITY CONTROL ACTIVITIES:**

	DATE	1 September 2015						
	DAY	S	М	Т	W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Over	cast	Rain	Fog/	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-	70	70-85	85	-up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hig	gh	Repo	ort No.	37
CONTRACT: EP-S4-08-03	- Humidity	Dry	Mod.	Hum	nid			
J.M. Waller and Tetra Tech oversight p	ersonnel onsite		l					

J.M. Waller and Tetra Tech oversight personnel onsite.

# **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

All activities performed in Level D.

# PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

- Issue with generator in mixing trailer.
- Daylighting at IP207.

# **SPECIAL NOTES:**

None.

# **EXPECTATIONS FOR September 2, 2015:**

• Crew will continue injections at IP042 and IP207.

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP224	7/10/2015	
IP238	7/10/2015	
IP230	7/10/2015	
IP211	7/10/2015	
IP223	7/10/2015	
IP217	7/10/2015	
IP231	7/11/2015	
IP237	7/11/2015	
IP218	7/11/2015	
IP017	7/11/2015	
IP205	7/11/2015	
IP191	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP245	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP251	7/12/2015	
IP093	7/12/2015	
IP250	7/12/2015	
IP247	7/13/2015	
IP076	7/13/2015	
IP067	7/13/2015	
IP239	7/13/2015	
IP084	7/14/2015	
IP010	7/14/2015	
IP102	7/14/2015	
IP005	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP016	7/14/2015	
IP154	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP009	7/16/2015	
IP216	7/16/2015	
IP018	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP204	7/16/2015	

IP169	7/16/2015	
IP025	7/17/2015	
IP029	7/17/2015	Daylighting of water from nearby recovery well.
IP023	7/17/2015	Daylighting of water from hearby recovery well.
IP228	7/20/2015	
IP226	7/20/2015	
IP012A	7/20/2015	See IP012B.
IP249	7/21/2015	See 17 012 B.
IP225	7/21/2015	
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IF 130	7/21/2013	Significant daylighting occurred at this point around the rods.
		Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
	7/21/2015 7/22/2015	Minimal daylighting around rods.
IP015		iviiiiiiai dayiigiitiiig around rous.
IP016 IP190	7/22/2015	
IP190 IP023	7/22/2015 7/22/2015	
IP037	7/22/2015	Daylighting around rade at multiple intervals
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP053	7/24/2015	Some daylighting around rods.
IP045	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	Destination are send and actionalities interests
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP145	7/27/2015	
IP242	7/27/2015	
IP060	7/27/2015	
IP052	7/27/2015	W II
IP110	7/27/2015	Well cap blown off of HG-15, water daylighted out of well.
IP068	7/28/2015	
IP069	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP075	7/28/2015	
IP059	7/28/2015	
IP160	7/28/2015	Deutishtiss assessed as de
IP061	7/29/2015	Daylighting around rods.
IP046	7/29/2015	Daylighting around rods.
IP078	7/29/2015	Only and intermediate and the terminal a
IP031	7/29/2015	Only one intervals completed due to proximity to interceptor trench.
IP176	7/29/2015	
IP044	7/29/2015	
IP008	7/30/2015	
IP153	7/30/2015	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		A second point for IP012 (labelled tentatively as IP012B) was added to
.= 2.2=	<b>-</b> 100 10 - : -	injection points since IP012 was offset a large distance from its original
IP012B	7/30/2015	location
IP118	7/30/2015	
IP024	7/30/2015	
IP086	7/30/2015	
IP047	7/31/2015	

IP136	7/31/2015	
IP083	8/3/2015	Daylighting around rods.
IP113	8/3/2015	Daying itting at ourita rous.
IP087	8/3/2015	
IP066	8/3/2015	
IP051	8/4/2015	
IP127	8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP080	8/4/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP081	8/6/2015	Ivininia daylighting around rous.
IP126	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP109	8/7/2015	
IP124	8/10/2015	
IP124 IP133	8/11/2015	
IP133	8/11/2015	
IP142		
	8/11/2015	
IP203 IP182	8/11/2015	
	8/11/2015	Doublink tipe are used rode
IP106 IP071	8/12/2015	Daylighting around rods.
IP071	8/12/2015 8/12/2015	
IP063	8/13/2015	
IP135	8/14/2015	
IP155		
IP055	8/14/2015 8/14/2015	
	8/17/2015	
IP035		
IP049 IP030	8/17/2015	
IP100	8/18/2015 8/18/2015	Several incidences of daylighting around rods.
IP100	8/18/2015	Several includences of daying ining around fous.
IP034 IP065	8/18/2015	
IP144	8/18/2015	
IP144 IP246	8/18/2015	
IP244	8/19/2015	
IF 244	0/ 13/ 2013	
IP064	8/19/2015	Issues with nearby well daylighting water and DNAPL, no reagent daylighted.
IP057	8/20/2015	pissues with hearby well daylighting water and DNAPL, no reagent daylighted.
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP174 IP079	8/20/2015	posues with hearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
IP152	8/20/2015	Dayiighting around rous.
IP132 IP097	8/20/2015	
IP105	8/20/2015	
IP103	8/21/2015	
17074	0/21/2013	

		·
IP141	8/21/2015	
IP150	8/24/2015	
IP243	8/24/2015	
IP132	8/25/2015	
IP125	8/25/2015	
IP143	8/25/2015	
IP134	8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP139	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP122	8/27/2015	
IP193	8/28/2015	
IP178	8/31/2015	
IP171	8/31/2015	
IP185	8/31/2015	
IP157	8/31/2015	
IP026	9/1/2015	
IP252	9/1/2015	
IP138	9/1/2015	
IP147	9/1/2015	
IP146	9/1/2015	
IP162	9/1/2015	

	DATE	2 September 2015						
	DAY	S	М	Т	W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Over	cast	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-	70	70-85	85-	up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hig	gh	Repo	ort No.	38
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hur	nid			

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area

### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP036, IP020, IP207, IP163, IP041, IP177, IP219, and IP151.
- List of partially completed points as of 8/31: IP006, IP042, IP058, IP070, IP082, IP116, IP117, IP155, IP195, IP210, IP215, IP222, IP180, IP108, and IP167.
- Total of injections points completed to date: 180 of 254.

### **PERSONNEL ON-SITE:**

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech Mitch Issacson

### **WORK PERFORMED:**

Site Weather – Warm and humid, 85°F, overcast with rain.

- 0730 Injections ongoing at IP162 and IP036.
- 0830 IP162 complete, abandoning points. Injections continue at IP036.
- 0900 Injections ongoing at IP036 and IP207.
- 1030 Injections ongoing at IP020 and IP207. Injections complete at IP036.
- 1045 IP020 complete, injections starting at IP041 soon. Injections continue at IP207.
- 1230 Injections complete at IP207 and IP163. Injections ongoing at IP041.
- 1330 Injections ongoing at IP116, injections complete at IP041. Injections ongoing at IP219, injections completed at IP117 earlier.
- 1500 IP116 incomplete, injections ongoing at IP151. IP219 complete, injections ongoing at IP155.
- 1530 Injections complete at IP151 but incomplete at IP155. Work stopping for rest of day.

### **QUALITY CONTROL ACTIVITIES:**

• J.M. Waller and Tetra Tech oversight personnel onsite.

### **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

• None.

EXPECTATIONS FOR September 3, 2015:
Crew will continue injections at IP155.

	DATE	2 September 2015						
	DAY	S	М	Т	W	ТН	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Ove	rcast	Rain	Fog/	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50	-70	70-85	85-	-up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hi	gh	Repo	ort No.	38
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hui	mid			
<ul> <li>All activities performed in Level D.</li> <li>PROBLEMS ENCOUNTERED/CORRECTION</li> <li>None.</li> <li>SPECIAL NOTES:</li> </ul>	ACTION TAKEN:							

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP224	7/10/2015	
IP238	7/10/2015	
IP230	7/10/2015	
IP211	7/10/2015	
IP223	7/10/2015	
IP217	7/10/2015	
IP231	7/11/2015	
IP237	7/11/2015	
IP218	7/11/2015	
IP017	7/11/2015	
IP205	7/11/2015	
IP191	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP245	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP251	7/12/2015	
IP093	7/12/2015	
IP250	7/12/2015	
IP247	7/13/2015	
IP076	7/13/2015	
IP067	7/13/2015	
IP239	7/13/2015	
IP084	7/14/2015	
IP010	7/14/2015	
IP102	7/14/2015	
IP005	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP016	7/14/2015	
IP154	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP009	7/16/2015	
IP216	7/16/2015	
IP018	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP204	7/16/2015	

IP169	7/16/2015	
IP025	7/17/2015	
IP029	7/17/2015	Daylighting of water from nearby recovery well.
IP023	7/17/2015	Daylighting of water from hearby recovery well.
IP228	7/20/2015	
IP226	7/20/2015	
IP012A	7/20/2015	See IP012B.
IP249	7/21/2015	See 17 012 B.
IP225	7/21/2015	
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IF 130	7/21/2013	Significant daylighting occurred at this point around the rous.
		Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
	7/21/2015 7/22/2015	Minimal daylighting around rods.
IP015		iviiiiiiai dayiigiitiiig around rous.
IP016 IP190	7/22/2015	
IP190 IP023	7/22/2015 7/22/2015	
IP037	7/22/2015	Daylighting around rade at multiple intervals
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP053	7/24/2015	Some daylighting around rods.
IP045	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	Destination are send and actionalities interests
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP145	7/27/2015	
IP242	7/27/2015	
IP060	7/27/2015	
IP052	7/27/2015	W II
IP110	7/27/2015	Well cap blown off of HG-15, water daylighted out of well.
IP068	7/28/2015	
IP069	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP075	7/28/2015	
IP059	7/28/2015	
IP160	7/28/2015	Deutishtiss assessed as de
IP061	7/29/2015	Daylighting around rods.
IP046	7/29/2015	Daylighting around rods.
IP078	7/29/2015	Only and intermediate and the terminal a
IP031	7/29/2015	Only one intervals completed due to proximity to interceptor trench.
IP176	7/29/2015	
IP044	7/29/2015	
IP008	7/30/2015	
IP153	7/30/2015	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		A second point for IP012 (labelled tentatively as IP012B) was added to
.= 2.2=	<b>-</b> 100 10 - : -	injection points since IP012 was offset a large distance from its original
IP012B	7/30/2015	location
IP118	7/30/2015	
IP024	7/30/2015	
IP086	7/30/2015	
IP047	7/31/2015	

IP136	7/31/2015	
IP083	8/3/2015	Daylighting around rods.
IP113	8/3/2015	Daying itting at out to to to.
IP087	8/3/2015	
IP066	8/3/2015	
IP051	8/4/2015	
IP127	8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP080	8/4/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP081	8/6/2015	Ivininia daylighting around rous.
IP126	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP109	8/7/2015	
IP124	8/10/2015	
IP124 IP133	8/11/2015	
IP133	8/11/2015	
IP142		
	8/11/2015	
IP203 IP182	8/11/2015	
	8/11/2015	Doublink tipe are used rode
IP106 IP071	8/12/2015	Daylighting around rods.
IP071	8/12/2015 8/12/2015	
IP063	8/13/2015	
IP135	8/14/2015	
IP155		
IP055	8/14/2015 8/14/2015	
	8/17/2015	
IP035		
IP049 IP030	8/17/2015	
IP100	8/18/2015 8/18/2015	Several incidences of daylighting around rods.
IP100	8/18/2015	Several includences of daying ining around fous.
IP034 IP065	8/18/2015	
IP144	8/18/2015	
IP144 IP246	8/18/2015	
IP244	8/19/2015	
IF 244	0/ 13/ 2013	
IP064	8/19/2015	Issues with nearby well daylighting water and DNAPL, no reagent daylighted.
IP057	8/20/2015	pissues with hearby well daylighting water and DNAPL, no reagent daylighted.
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP174 IP079	8/20/2015	posues with hearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
IP152	8/20/2015	Dayiighting around rous.
IP132 IP097	8/20/2015	
IP105	8/20/2015	
IP103	8/21/2015	
17074	0/21/2013	

IP141		1	T
IP243	IP141	8/21/2015	
P132   8/25/2015     P125   8/25/2015     P143   8/25/2015     P134   8/25/2015     P134   8/25/2015     P134   8/25/2015     P134   8/25/2015     P1073   8/26/2015     P1090   8/26/2015     P131   8/26/2015     P139   8/26/2015     P148   8/26/2015     P148   8/26/2015     P148   8/26/2015     P164   8/26/2015     P164   8/26/2015     P165   8/27/2015     P193   8/28/2015     P1919   8/28/2015     P178   8/31/2015     P171   8/31/2015     P171   8/31/2015     P175   8/31/2015     P185   8/31/2015     P185   8/31/2015     P1957   8/31/2015     P1957   8/31/2015     P1952   9/1/2015     P138   9/1/2015     P146   9/1/2015     P146   9/1/2015     P146   9/1/2015     P162   9/1/2015     P162   9/1/2015     P163   9/2/2015     P163   9/2/2015     P163   9/2/2015     P164   9/1/2015     P165   9/2/2015     P167   9/2/2015     P167   9/2/2015     P168   9/2/2015     P177   P177   9/2/2015     P177   P177   P177   P177   P177   P177   P1			
IP125		8/24/2015	
IP143	IP132	8/25/2015	
IP134	IP125	8/25/2015	
IP073	IP143	8/25/2015	
IP090   8/26/2015     IP131   8/26/2015     IP139   8/26/2015     IP148   8/26/2015     IP148   8/26/2015     IP164   8/26/2015     IP122   8/27/2015     IP193   8/28/2015     IP193   8/28/2015     IP193   8/28/2015     IP178   8/31/2015     IP171   8/31/2015     IP171   8/31/2015     IP185   8/31/2015     IP185   8/31/2015     IP197   8/31/2015     IP252   9/1/2015     IP252   9/1/2015     IP138   9/1/2015     IP138   9/1/2015     IP146   9/1/2015     IP146   9/1/2015     IP162   9/1/2015     IP162   9/1/2015     IP162   9/1/2015     IP163   9/2/2015     IP207   9/2/2015     IP207   9/2/2015     IP163   9/2/2015     IP164   9/2/2015     IP167   9/2/2015     IP177   9/2/2015     IP177   9/2/2015     IP177   9/2/2015     IP219	IP134	8/25/2015	
IP131	IP073	8/26/2015	
IP139   8/26/2015     IP148   8/26/2015     IP164   8/26/2015     IP122   8/27/2015     IP193   8/28/2015     IP178   8/31/2015     IP171   8/31/2015     IP185   8/31/2015     IP185   8/31/2015     IP187   8/31/2015     IP187   8/31/2015     IP187   8/31/2015     IP188   9/1/2015     IP189   9/1/2015     IP1906   9/1/2015     IP147   9/1/2015     IP146   9/1/2015     IP162   9/1/2015     IP162   9/1/2015     IP036   9/2/2015     IP020   9/2/2015     IP020   9/2/2015     IP163   9/2/2015     IP163   9/2/2015     IP177   9/2/2015     IP219   9/2/201	IP090	8/26/2015	
IP148	IP131	8/26/2015	
IP164	IP139	8/26/2015	
IP122   8/27/2015	IP148	8/26/2015	
IP193	IP164	8/26/2015	
IP178	IP122	8/27/2015	
IP171	IP193	8/28/2015	
IP185   8/31/2015	IP178	8/31/2015	
IP157   8/31/2015     IP026   9/1/2015     IP252   9/1/2015     IP138   9/1/2015     IP147   9/1/2015     IP146   9/1/2015     IP162   9/1/2015     IP036   9/2/2015     IP020   9/2/2015   IP020   9/2/2015     IP207   9/2/2015     IP163   9/2/2015     IP163   9/2/2015     IP041   9/2/2015     IP177   9/2/2015     IP177   9/2/2015     IP177   9/2/2015     IP177   9/2/2015     IP219   IP219   9/2/2015     IP219   IP	IP171	8/31/2015	
IP026	IP185	8/31/2015	
IP252	IP157	8/31/2015	
IP138   9/1/2015	IP026	9/1/2015	
IP147   9/1/2015     IP146   9/1/2015     IP162   9/1/2015     IP036   9/2/2015     IP020   9/2/2015     IP207   9/2/2015   IP163   9/2/2015     IP163   9/2/2015     IP041   9/2/2015     IP177   9/2/2015     IP177   9/2/2015     IP179   9/2/2015     IP219   IP219	IP252	9/1/2015	
IP146   9/1/2015     IP162   9/1/2015     IP036   9/2/2015     IP020   9/2/2015     IP207   9/2/2015     IP163   9/2/2015     IP041   9/2/2015     IP041   9/2/2015     IP177   9/2/2015     IP177   9/2/2015     IP179   9/2/2015     IP219   IP219	IP138	9/1/2015	
IP162   9/1/2015     IP036   9/2/2015     IP020   9/2/2015     IP207   9/2/2015     IP163   9/2/2015     IP041   9/2/2015   IP177   9/2/2015     IP177   9/2/2015   IP179   9/2/2015     IP219	IP147	9/1/2015	
IP036 9/2/2015 IP020 9/2/2015 IP207 9/2/2015 IP163 9/2/2015 IP041 9/2/2015 IP177 9/2/2015 IP219 9/2/2015	IP146	9/1/2015	
IP020   9/2/2015     IP207   9/2/2015     IP163   9/2/2015     IP041   9/2/2015     IP177   9/2/2015     IP177   9/2/2015     IP219   9/2/2015     IP219   9/2/2015     IP219   9/2/2015     IP219   9/2/2015     IP219   IP	IP162	9/1/2015	
IP207   9/2/2015     IP163   9/2/2015     IP041   9/2/2015     IP177   9/2/2015     IP219   9/2/2015     IP219   9/2/2015     IP219   9/2/2015     IP219   9/2/2015     IP219   IP21	IP036	9/2/2015	
IP163     9/2/2015       IP041     9/2/2015       IP177     9/2/2015       IP219     9/2/2015	IP020	9/2/2015	
IP041     9/2/2015       IP177     9/2/2015       IP219     9/2/2015	IP207	9/2/2015	
IP177 9/2/2015 IP219 9/2/2015	IP163	9/2/2015	
IP219 9/2/2015	IP041	9/2/2015	
	IP177	9/2/2015	
IP151 9/2/2015	IP219	9/2/2015	
	IP151	9/2/2015	

DATE			tember	2015				
	DAY	S	М	Т	W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overc	ast	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	_			50-7	0	70-85	85-	up
ISGS Injections Former Process Area	- WIND	Still	Mod.	Higl	h	Repo	ort No.	39
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hum	id			

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area

### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP188, IP199, and IP184.
- List of partially completed points as of 8/31: IP006, IP042, IP058, IP070, IP082, IP116, IP117, IP155, IP195, IP210, IP215, IP222, IP180, IP181, and IP108.
- Total of injections points completed to date: 188 of 254.

### **PERSONNEL ON-SITE:**

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech Mitch Issacson

### **WORK PERFORMED:**

Site Weather – Hot and humid, 92°F, thunderstorms.

- 0730 Abandoning points.
- 0830 Injections ongoing at IP188 and abandoning points.
- 1000 Injections ongoing at IP199 and IP196. Injections complete at IP188.
- 1130 Injections continue at IP199 and IP196.
- 1330 Injections complete at IP199. Injections ongoing at IP184 and IP196.
- 1400 Crews shutting down for day due to weather. Injections complete at IP184. Injections incomplete at IP196.

### **QUALITY CONTROL ACTIVITIES:**

• J.M. Waller and Tetra Tech oversight personnel onsite.

## **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

• All activities performed in Level D.

### PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

None.

## **SPECIAL NOTES:**

None.

	DATE	4 September 2015					
	DAY	S	М	T W	TH	F	S
USEPA COR: Scott Miller	WEATHER		Partly Cloudy	Overcast	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-70	70-85	85-	up
ISGS Injections Former Process Area	WIND	Still <b>Mod.</b>		High	Repo	ort No.	39
CONTRACT: EP-S4-08-03	- HUMIDITY	Dry Mod.		Humid			

# **EXPECTATIONS FOR September 8, 2015:**

• Crew will continue injections at IP196.

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP224	7/10/2015	
IP238	7/10/2015	
IP230	7/10/2015	
IP211	7/10/2015	
IP223	7/10/2015	
IP217	7/10/2015	
IP231	7/11/2015	
IP237	7/11/2015	
IP218	7/11/2015	
IP017	7/11/2015	
IP205	7/11/2015	
IP191	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP245	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP251	7/12/2015	
IP093	7/12/2015	
IP250	7/12/2015	
IP247	7/13/2015	
IP076	7/13/2015	
IP067	7/13/2015	
IP239	7/13/2015	
IP084	7/14/2015	
IP010	7/14/2015	
IP102	7/14/2015	
IP005	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP016	7/14/2015	
IP154	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP009	7/16/2015	
IP216	7/16/2015	
IP018	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP204	7/16/2015	

IP169	7/16/2015	
IP025	7/17/2015	
IP029	7/17/2015	Daylighting of water from nearby recovery well.
IP023	7/17/2015	Daylighting of water from hearby recovery well.
IP228	7/20/2015	
IP226	7/20/2015	
IP012A	7/20/2015	See IP012B.
IP249	7/21/2015	See 17 012 B.
IP225	7/21/2015	
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IF 130	7/21/2013	Significant daylighting occurred at this point around the rous.
		Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
	7/21/2015 7/22/2015	Minimal daylighting around rods.
IP015		iviiiiiiai dayiigiitiiig around rous.
IP016 IP190	7/22/2015	
IP190 IP023	7/22/2015 7/22/2015	
IP037	7/22/2015	Daylighting around rade at multiple intervals
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP053	7/24/2015	Some daylighting around rods.
IP045	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	Destination are send and actionalities interests
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP145	7/27/2015	
IP242	7/27/2015	
IP060	7/27/2015	
IP052	7/27/2015	W II
IP110	7/27/2015	Well cap blown off of HG-15, water daylighted out of well.
IP068	7/28/2015	
IP069	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP075	7/28/2015	
IP059	7/28/2015	
IP160	7/28/2015	Deutishtiss assessed as de
IP061	7/29/2015	Daylighting around rods.
IP046	7/29/2015	Daylighting around rods.
IP078	7/29/2015	Only and intermediate and the terminal a
IP031	7/29/2015	Only one intervals completed due to proximity to interceptor trench.
IP176	7/29/2015	
IP044	7/29/2015	
IP008	7/30/2015	
IP153	7/30/2015	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		A second point for IP012 (labelled tentatively as IP012B) was added to
.= 2.2=	<b>-</b> 100 10 - : -	injection points since IP012 was offset a large distance from its original
IP012B	7/30/2015	location
IP118	7/30/2015	
IP024	7/30/2015	
IP086	7/30/2015	
IP047	7/31/2015	

IP136	7/31/2015	
IP083	8/3/2015	Daylighting around rods.
IP113	8/3/2015	Daying itting at ourita rous.
IP087	8/3/2015	
IP066	8/3/2015	
IP051	8/4/2015	
IP127	8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP080	8/4/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP081	8/6/2015	Ivininia daylighting around rous.
IP126	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP109	8/7/2015	
IP124	8/10/2015	
IP124 IP133	8/11/2015	
IP133	8/11/2015	
IP142		
	8/11/2015	
IP203 IP182	8/11/2015	
	8/11/2015	Doublink tipe are used rode
IP106 IP071	8/12/2015	Daylighting around rods.
IP071	8/12/2015 8/12/2015	
IP063	8/13/2015	
IP135	8/14/2015	
IP155		
IP055	8/14/2015 8/14/2015	
	8/17/2015	
IP035		
IP049 IP030	8/17/2015	
IP100	8/18/2015 8/18/2015	Several incidences of daylighting around rods.
IP100	8/18/2015	Several includences of daying ining around fous.
IP034 IP065	8/18/2015	
IP144	8/18/2015	
IP144 IP246	8/18/2015	
IP244	8/19/2015	
IF 244	0/ 13/ 2013	
IP064	8/19/2015	Issues with nearby well daylighting water and DNAPL, no reagent daylighted.
IP057	8/20/2015	pissues with hearby well daylighting water and DNAPL, no reagent daylighted.
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP174 IP079	8/20/2015	posses with hearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
IP152	8/20/2015	Dayiighting around rous.
IP132 IP097	8/20/2015	
IP105	8/20/2015	
IP103	8/21/2015	
17074	0/21/2013	

IP141	8/21/2015	
IP150	8/24/2015	
IP243	8/24/2015	
IP132	8/25/2015	
IP125	8/25/2015	
IP143	8/25/2015	
IP134	8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP139	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP122	8/27/2015	
IP193	8/28/2015	
IP178	8/31/2015	
IP171	8/31/2015	
IP185	8/31/2015	
IP157	8/31/2015	
IP026	9/1/2015	
IP252	9/1/2015	
IP138	9/1/2015	
IP147	9/1/2015	
IP146	9/1/2015	
IP162	9/1/2015	
IP036	9/2/2015	
IP020	9/2/2015	
IP207	9/2/2015	
IP163	9/2/2015	
IP041	9/2/2015	
IP177	9/2/2015	
IP219	9/2/2015	
IP151	9/2/2015	
IP206	9/3/2015	
IP217	9/3/2015	
IP192	9/3/2015	
IP167	9/3/2015	Daylighting issues.
IP107	9/3/2015	Dayiighting issues.
IP138	9/4/2015	
IP188	9/4/2015	
IP199 IP184	9/4/2015	
17184	9/4/2013	

	DATE	8 Sep	tember	<u> 2015</u>				
	DAY	S	М	Т	W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Ove	rcast	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50	-70	70-85	85-	up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hi	gh	Repo	ort No.	40
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hur	nid			

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area

### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP208, IP200, IP213, IP248, and IP221.
- List of partially completed points as of 8/31: IP006, IP042, IP058, IP070, IP082, IP116, IP117, IP155, IP195, IP210, IP215, IP222, IP180, IP181, IP196, IP173, and IP108.
- Total of injections points completed to date: 193 of 254.
- Weston personnel have begun sampling Cabot wells.

### **PERSONNEL ON-SITE:**

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech Mitch Issacson
- John Herbert GRU
- Mitchell Brourman Beazer East
- Weston Mark Taylor

### WORK PERFORMED:

Site Weather – Hot and humid, 92°F, thunderstorms.

- 0730 Abandoning points.
- 0830 Injections starting at IP196 soon and abandoning points.
- 1000 Injections ongoing at IP200 and IP196. Injections complete at IP208.
- 1015 Injections complete at IP200, injections starting at IP213. Daylighting approximately 8' from rods at IP196, injections stopped. Mitchell Brourman (Beazer East) and John Herbert (GRU) visit site.
- 1100 Daylighting approximately 5' from rods at IP213, possible old borehole. Crew is digging out where daylighting occurred at packing with bentonite chips. Crew will try to complete final interval at IP213.
- 1130 Injections complete at IP213. Injections ongoing at IP173.
- 1230 Injections continue at IP173 and IP248.
- 1330 Injections complete at IP248, pushing down rods at IP221. Injections continue at IP173.

	DATE	8 September 2015					
	DAY	S	М	T W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overcas	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-70	70-85	85-	-up
ISGS Injections Former Process Area	WIND	Still	Mod.	High	Repo	ort No.	40
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Humid			

1430 - Injections continue at IP173 and IP221.

1500 - Injections continue at IP173 and IP221.

- 1600 Injections complete at IP221. Daylighting occurred near IP173 at nearby recovery well. Reagent daylighting occurred around well bollards. Injections stopped for the rest of the day.
- 1630 Weston personnel sampling wells HG-36 S and HG-36 D at Cabot property. No obvious odor in purge water, some turbidity likely due to disturbed silt in well casing. This will be the only set of wells sampled today since crew got a late start on sampling.

### QUALITY CONTROL ACTIVITIES:

• J.M. Waller and Tetra Tech oversight personnel onsite.

### **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

All activities performed in Level D.

### PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

• Multiple daylighting events at ground surface when injecting in shallow intervals.

### **SPECIAL NOTES:**

• Weston begins to sample Hawthorn wells at Cabot property.

# **EXPECTATIONS FOR September 8, 2015:**

- Crew will continue injections at IP196.
- Weston personnel will continue sampling Cabot wells.

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP224	7/10/2015	
IP238	7/10/2015	
IP230	7/10/2015	
IP211	7/10/2015	
IP223	7/10/2015	
IP217	7/10/2015	
IP231	7/11/2015	
IP237	7/11/2015	
IP218	7/11/2015	
IP017	7/11/2015	
IP205	7/11/2015	
IP191	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP245	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP251	7/12/2015	
IP093	7/12/2015	
IP250	7/12/2015	
IP247	7/13/2015	
IP076	7/13/2015	
IP067	7/13/2015	
IP239	7/13/2015	
IP084	7/14/2015	
IP010	7/14/2015	
IP102	7/14/2015	
IP005	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP016	7/14/2015	
IP154	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP009	7/16/2015	
IP216	7/16/2015	
IP018	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP204	7/16/2015	

IP169	7/16/2015	
IP025	7/17/2015	
IP029	7/17/2015	Daylighting of water from nearby recovery well.
IP023	7/17/2015	Daylighting of water from hearby recovery well.
IP228	7/20/2015	
IP226	7/20/2015	
IP012A	7/20/2015	See IP012B.
IP249	7/21/2015	See 17 012 B.
IP225	7/21/2015	
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IF 130	7/21/2013	Significant daylighting occurred at this point around the rous.
		Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
	7/21/2015 7/22/2015	Minimal daylighting around rods.
IP015		iviiiiiiai dayiigiitiiig around rous.
IP016 IP190	7/22/2015	
IP190 IP023	7/22/2015 7/22/2015	
IP037	7/22/2015	Daylighting around rade at multiple intervals
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP053	7/24/2015	Some daylighting around rods.
IP045	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	Destination are send and actionalities interests
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP145	7/27/2015	
IP242	7/27/2015	
IP060	7/27/2015	
IP052	7/27/2015	W II
IP110	7/27/2015	Well cap blown off of HG-15, water daylighted out of well.
IP068	7/28/2015	
IP069	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP075	7/28/2015	
IP059	7/28/2015	
IP160	7/28/2015	Deutishtiss assessed as de
IP061	7/29/2015	Daylighting around rods.
IP046	7/29/2015	Daylighting around rods.
IP078	7/29/2015	Only and intermediate and the terminal a
IP031	7/29/2015	Only one intervals completed due to proximity to interceptor trench.
IP176	7/29/2015	
IP044	7/29/2015	
IP008	7/30/2015	
IP153	7/30/2015	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		A second point for IP012 (labelled tentatively as IP012B) was added to
.= 2.2=	<b>-</b> 100 10 - : -	injection points since IP012 was offset a large distance from its original
IP012B	7/30/2015	location
IP118	7/30/2015	
IP024	7/30/2015	
IP086	7/30/2015	
IP047	7/31/2015	

IP136	7/31/2015	
IP083	8/3/2015	Daylighting around rods.
IP113	8/3/2015	Daying itting at out to to to.
IP087	8/3/2015	
IP066	8/3/2015	
IP051	8/4/2015	
IP127	8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP080	8/4/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP081	8/6/2015	Ivininia daylighting around rous.
IP126	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP109	8/7/2015	
IP124	8/10/2015	
IP124 IP133	8/11/2015	
IP133	8/11/2015	
IP142		
	8/11/2015	
IP203 IP182	8/11/2015	
	8/11/2015	Doublink tipe are used rode
IP106 IP071	8/12/2015	Daylighting around rods.
IP071	8/12/2015 8/12/2015	
IP063	8/13/2015	
IP135	8/14/2015	
IP155		
IP055	8/14/2015 8/14/2015	
	8/17/2015	
IP035		
IP049 IP030	8/17/2015	
IP100	8/18/2015 8/18/2015	Several incidences of daylighting around rods.
IP100	8/18/2015	Several includences of daying ining around fous.
IP034 IP065	8/18/2015	
IP144	8/18/2015	
IP144 IP246	8/18/2015	
IP244	8/19/2015	
IF 244	0/ 13/ 2013	
IP064	8/19/2015	Issues with nearby well daylighting water and DNAPL, no reagent daylighted.
IP057	8/20/2015	pissues with hearby well daylighting water and DNAPL, no reagent daylighted.
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP174 IP079	8/20/2015	posses with hearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
IP152	8/20/2015	Dayiighting around rous.
IP132 IP097	8/20/2015	
IP105	8/20/2015	
IP103	8/21/2015	
17074	0/21/2013	

IP141	8/21/2015	
IP141 IP150		
IP243	8/24/2015	
	8/24/2015	
IP132	8/25/2015	
IP125	8/25/2015	
IP143	8/25/2015	
IP134	8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP139	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP122	8/27/2015	
IP193	8/28/2015	
IP178	8/31/2015	
IP171	8/31/2015	
IP185	8/31/2015	
IP157	8/31/2015	
IP026	9/1/2015	
IP252	9/1/2015	
IP138	9/1/2015	
IP147	9/1/2015	
IP146	9/1/2015	
IP162	9/1/2015	
IP036	9/2/2015	
IP020	9/2/2015	
IP207	9/2/2015	
IP163	9/2/2015	
IP041	9/2/2015	
IP177	9/2/2015	
IP219	9/2/2015	
IP151	9/2/2015	
IP206	9/3/2015	
IP217	9/3/2015	
IP192	9/3/2015	
IP167	9/3/2015	Daylighting issues.
IP158	9/3/2015	
IP188	9/4/2015	
IP199	9/4/2015	
IP184	9/4/2015	
IP208	9/8/2015	
IP200	9/8/2015	
IP213	9/8/2015	Daylighting approximately 5' from rods.
IP248	9/8/2015	- / G
IP221	9/8/2015	
11 221	3/0/2013	

	DATE	9 September 2015					
	DAY	S	М	T <b>W</b>	ТН	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overcast	Rain	Fog/	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-70	70-85	85-	-up
ISGS Injections Former Process Area	WIND	Still	Mod.	High	Repo	ort No.	41
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Humid			

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area

### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP054, IP038, IP187, and IP123.
- List of partially completed points as of 8/31: IP006, IP042, IP058, IP070, IP082, IP116, IP117, IP155, IP195, IP210, IP215, IP222, IP180, IP181, IP196, IP173, TIP 380N/180E, and IP108.
- Total of injections points completed to date: 197 of 254.
- Weston personnel have begun sampling Cabot wells.

### **PERSONNEL ON-SITE:**

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech Mitch Issacson
- Weston Mark Taylor

### **WORK PERFORMED:**

Site Weather – Hot and humid, 92°F, thunderstorms.

- 0730 Abandoning points and setting up to begin injections.
- 0830 Crews continue abandoning points.
- 0930 Injections ongoing at IP187, pushing down rods at IP054.
- 1000 Injections ongoing at IP187 and IP054. Weston personnel sampling HG-37S and HG-37D at Cabot property. No obvious odor or color to purge water.
- 1130 Injections ongoing at IP187 and IP038, injections completed at IP054.
- 1230 Injections continue at IP187 and IP038.
- 1400 Injections complete at IP038 and IP187. Pushing rods down at IP123 and IP028.
- 1530 Injections ongoing at IP123 and TIP 380N/180E, concrete cause rejection at IP028 crew will attempt this point at later date.
- 1630 Injections complete at IP123, injections stopped at TIP 380N/180E. Injections will continue tomorrow. Site shutting down.

	DAY	S	М	Т	W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Ove	rcast	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50	-70	70-85	85-	up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hi	gh	Repo	ort No.	41
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hur	nid			
<ul><li>QUALITY CONTROL ACTIVITIES:</li><li>J.M. Waller and Tetra Tech oversight p</li></ul>	ersonnel onsite.							
HEALTH AND SAFETY LEVELS AND ACTIVITIES:								
<ul> <li>All activities performed in Level D.</li> </ul>								

DATE

# PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

None.

# SPECIAL NOTES:

• None.

# **EXPECTATIONS FOR September 10, 2015:**

- Crew will continue injections at TIP 380N/180E.
- Weston personnel will continue sampling Cabot wells.

PREPARED BY: Joshua Hayes REVIEWED BY: Tim Turner

9 September 2015

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP224	7/10/2015	
IP238	7/10/2015	
IP230	7/10/2015	
IP211	7/10/2015	
IP223	7/10/2015	
IP217	7/10/2015	
IP231	7/11/2015	
IP237	7/11/2015	
IP218	7/11/2015	
IP017	7/11/2015	
IP205	7/11/2015	
IP191	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP245	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP251	7/12/2015	
IP093	7/12/2015	
IP250	7/12/2015	
IP247	7/13/2015	
IP076	7/13/2015	
IP067	7/13/2015	
IP239	7/13/2015	
IP084	7/14/2015	
IP010	7/14/2015	
IP102	7/14/2015	
IP005	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP016	7/14/2015	
IP154	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP009	7/16/2015	
IP216	7/16/2015	
IP018	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP204	7/16/2015	

IP169	7/16/2015	
IP025	7/17/2015	
IP029	7/17/2015	Daylighting of water from nearby recovery well.
IP023	7/17/2015	Daylighting of water from hearby recovery well.
IP228	7/20/2015	
IP226	7/20/2015	
IP012A	7/20/2015	See IP012B.
IP249	7/21/2015	See 17 012 B.
IP225	7/21/2015	
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IF 130	7/21/2013	Significant daylighting occurred at this point around the rods.
		Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
	7/21/2015 7/22/2015	Minimal daylighting around rods.
IP015		iviiiiiiai dayiigiitiiig around rous.
IP016 IP190	7/22/2015	
IP190 IP023	7/22/2015 7/22/2015	
IP037	7/22/2015	Daylighting around rade at multiple intervals
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP053	7/24/2015	Some daylighting around rods.
IP045	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	Destination are send and actionalities interests
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP145	7/27/2015	
IP242	7/27/2015	
IP060	7/27/2015	
IP052	7/27/2015	W II
IP110	7/27/2015	Well cap blown off of HG-15, water daylighted out of well.
IP068	7/28/2015	
IP069	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP075	7/28/2015	
IP059	7/28/2015	
IP160	7/28/2015	Deutishtiss assessed as de
IP061	7/29/2015	Daylighting around rods.
IP046	7/29/2015	Daylighting around rods.
IP078	7/29/2015	Only and intermediate and the terminal a
IP031	7/29/2015	Only one intervals completed due to proximity to interceptor trench.
IP176	7/29/2015	
IP044	7/29/2015	
IP008	7/30/2015	
IP153	7/30/2015	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		A second point for IP012 (labelled tentatively as IP012B) was added to
.= 2.2=	<b>-</b> 100 10 - : -	injection points since IP012 was offset a large distance from its original
IP012B	7/30/2015	location
IP118	7/30/2015	
IP024	7/30/2015	
IP086	7/30/2015	
IP047	7/31/2015	

IP136	7/31/2015	
IP083	8/3/2015	Daylighting around rods.
IP113	8/3/2015	Daying itting at ourita rous.
IP087	8/3/2015	
IP066	8/3/2015	
IP051	8/4/2015	
IP127	8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP080	8/4/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP081	8/6/2015	Ivininia daylighting around rous.
IP126	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP109	8/7/2015	
IP124	8/10/2015	
IP124 IP133	8/11/2015	
IP133	8/11/2015	
IP142		
	8/11/2015	
IP203 IP182	8/11/2015	
	8/11/2015	Doublink tipe are used rode
IP106 IP071	8/12/2015	Daylighting around rods.
IP071	8/12/2015 8/12/2015	
IP063	8/13/2015	
IP135	8/14/2015	
IP155		
IP055	8/14/2015 8/14/2015	
	8/17/2015	
IP035		
IP049 IP030	8/17/2015	
IP100	8/18/2015 8/18/2015	Several incidences of daylighting around rods.
IP100	8/18/2015	Several includences of daying ining around fous.
IP034 IP065	8/18/2015	
IP144	8/18/2015	
IP144 IP246	8/18/2015	
IP244	8/19/2015	
IF 244	0/ 13/ 2013	
IP064	8/19/2015	Issues with nearby well daylighting water and DNAPL, no reagent daylighted.
IP057	8/20/2015	pissues with hearby well daylighting water and DNAPL, no reagent daylighted.
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP174 IP079	8/20/2015	posses with hearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
IP152	8/20/2015	Dayiighting around rous.
IP132 IP097	8/20/2015	
IP105	8/20/2015	
IP103	8/21/2015	
17074	0/21/2013	

ID4.44	0/24/2015	
IP141 IP150	8/21/2015	
IP243	8/24/2015 8/24/2015	
IP132	8/25/2015	
IP132	8/25/2015	
IP143 IP134	8/25/2015 8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP131	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP104	8/27/2015	
IP193	8/28/2015	
IP178	8/31/2015	
IP178	8/31/2015	
IP171		
IP185	8/31/2015 8/31/2015	
IP026	9/1/2015	
IP252	9/1/2015	
IP138	9/1/2015	
IP138		
IP147	9/1/2015 9/1/2015	
IP146		
	9/1/2015	
IP036	9/2/2015	
IP020 IP207	9/2/2015 9/2/2015	
IP163	9/2/2015	
IP163	9/2/2015	
IP177	9/2/2015 9/2/2015	
IP219 IP151		
	9/2/2015	
IP206	9/3/2015	
IP217 IP192	9/3/2015	
	9/3/2015	Daviliahtina isawa
IP167 IP158	9/3/2015 9/3/2015	Daylighting issues.
IP188 IP199	9/4/2015	
IP199 IP184	9/4/2015	
	9/4/2015	
IP208 IP200	9/8/2015	
	9/8/2015	Daylighting approximately E! from rods
IP213	9/8/2015	Daylighting approximately 5' from rods.
IP248	9/8/2015	
IP221	9/8/2015	
IP054	9/9/2015	
IP038	9/9/2015	
IP187	9/9/2015	
IP123	9/9/2015	

	DATE 11 September 2015							
	DAY	S	М	Т	W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Ove	rcast	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-	-70	70-85	85-	-up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hi	gh	Repo	ort No.	43
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hur	nid			

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area

### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP165, IP194, IP253, and IP220.
- List of partially completed points as of 8/31: IP031, IP048, IP050, IP058, IP062, IP071, IP079, IP082, IP108, IP110, IP117, IP155, IP166, IP180, IP195, IP196, IP202, IP204, IP209, IP210, IP211, IP216, IP222.
- Total of injections points completed to date: 210 of 254.

### **PERSONNEL ON-SITE:**

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech Mitch Issacson

### **WORK PERFORMED:**

Site Weather – Hot and humid, 92°F, thunderstorms likely.

- 0730 Abandoning points and setting up to begin injections.
- 0830 Crews continue abandoning points.
- 1000 Well abandonment continues.
- 1100 Injections ongoing at IP165 and IP048.
- 1230 Injections continue at IP165. Daylighting at IP048, injections stopped.
- 1330 Injections complete at IP165, injections starting at IP194 and IP253 soon.
- 1530 Injections complete at IP194 and IP253, injections ongoing at IP220.
- 1545 Injections complete at IP220, injections done for the day. Leaving site.
- 1630 Injections complete at IP179. Injections will continue tomorrow. Site shutting down.

### **QUALITY CONTROL ACTIVITIES:**

J.M. Waller and Tetra Tech oversight personnel onsite.

### **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

All activities performed in Level D.

	DATE	11 September 2015						
	DAY	S	М	Т	W	TH	F	S
					•	•		
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Ove	ercast	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50	)-70	70-85	85-	·up
ISGS Injections Former Process Area	WIND	Still	Mod.	Н	igh	Repo	ort No.	43
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hu	mid			
PROBLEMS ENCOUNTERED/CORRECTION  None.  SPECIAL NOTES:  None.  EXPECTATIONS FOR September 14, 2015:  Crew will continue injections at IP048.	ACTION TAKEN:							

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP223	7/10/2015	
IP224	7/10/2015	
IP230	7/10/2015	
IP238	7/10/2015	
IP017	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP191	7/11/2015	
IP205	7/11/2015	
IP218	7/11/2015	
IP231	7/11/2015	
IP237	7/11/2015	
IP093	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP245	7/12/2015	
IP250	7/12/2015	
IP251	7/12/2015	
IP067	7/13/2015	
IP076	7/13/2015	
IP239	7/13/2015	
IP247	7/13/2015	
IP005	7/14/2015	
IP010	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP084	7/14/2015	
IP101	7/14/2015	
IP102	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP009	7/16/2015	
IP018	7/16/2015	
IP169	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP025	7/17/2015	
IP029	7/17/2015	Daylighting of water from nearby recovery well.
IP033	7/17/2015	
IP226	7/20/2015	

IP228	7/20/2015	
10004	7/24/2045	Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP225	7/21/2015	
IP249	7/21/2015	
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	
IP023	7/22/2015	
IP037	7/22/2015	
IP190	7/22/2015	
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP045	7/24/2015	Some daylighting around rods.
IP053	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	
IP052	7/27/2015	
IP060	7/27/2015	
IP145	7/27/2015	
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP242	7/27/2015	
IP059	7/28/2015	
IP068	7/28/2015	
IP069	7/28/2015	
IP075	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP160	7/28/2015	
IP044	7/29/2015	
IP046	7/29/2015	Daylighting around rods.
IP061	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
IP176	7/29/2015	
IP008	7/30/2015	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10046	7/00/00:-	A second point for IP012 was added to injection points since IP012 was
IP012	7/30/2015	offset a large distance from its original location
IP024	7/30/2015	
IP086	7/30/2015	
IP118	7/30/2015	
IP153	7/30/2015	
IP047	7/31/2015	
IP136	7/31/2015	
IPO22	8/3/2015	
IP066	8/3/2015	
IP083	8/3/2015	Daylighting around rods.
IP087	8/3/2015	
IP096	8/3/2015	
IP113	8/3/2015	
IP027	8/4/2015	
IP051	8/4/2015	

IDOSO	9/4/2015	
IP080	8/4/2015	
IP127	8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP040	8/5/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP081	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP126	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP091	8/7/2015	
IP098	8/7/2015	
IP107	8/10/2015	
IP124	8/10/2015	
IP099	8/11/2015	
IP133	8/11/2015	
IP142	8/11/2015	
IP182	8/11/2015	
IP203	8/11/2015	
IP039	8/12/2015	
IP106	8/12/2015	Daylighting around rods.
IP215	8/12/2015	
IP055	8/14/2015	
IP135	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP034	8/18/2015	
IP065	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP144	8/18/2015	
IP246	8/18/2015	
IP244	8/19/2015	
IP057	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP152	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
IP074	8/21/2015	
IP141	8/21/2015	
IP150	8/24/2015	
IP214	8/24/2015	
IP243	8/24/2015	
IP070	8/25/2015	
IP125	8/25/2015	
IP132	8/25/2015	
IP134	8/25/2015	

ID1.42	0/25/2015	
IP143	8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP139	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP114	8/27/2015	
IP122	8/27/2015	
IP193	8/28/2015	
IP157	8/31/2015	
IP171	8/31/2015	
IP178	8/31/2015	
IP185	8/31/2015	
IP026	9/1/2015	
IP138	9/1/2015	
IP146	9/1/2015	
IP147	9/1/2015	
IP162	9/1/2015	
IP252	9/1/2015	
IP020	9/2/2015	
IP036	9/2/2015	
IP041	9/2/2015	
IP151	9/2/2015	
IP163	9/2/2015	
IP177	9/2/2015	
IP207	9/2/2015	
IP219	9/2/2015	
IP158	9/3/2015	
IP167	9/3/2015	Daylighting issues.
IP192	9/3/2015	
IP206	9/3/2015	
IP212	9/3/2015	
IP217	9/3/2015	
IP227	9/3/2015	
IP170	9/4/2015	
IP184	9/4/2015	
IP188	9/4/2015	
IP199	9/4/2015	
IP200	9/8/2015	
IP208	9/8/2015	
IP213	9/8/2015	Daylighting approximately 5' from rods.
IP221	9/8/2015	
IP248	9/8/2015	
IP038	9/9/2015	
IP054	9/9/2015	
IP123	9/9/2015	
IP187	9/9/2015	
IP006	9/10/2015	
IP056	9/10/2015	
IP077	9/10/2015	

IP088	9/10/2015	
IP149	9/10/2015	Minimal daylighting.
IP179	9/10/2015	
IP197	9/10/2015	
TIP 380N/180E	9/10/2015	
IP165	9/11/2015	
IP194	9/11/2015	
IP253	9/11/2015	
IP220	9/11/2015	

	DATE	14 Se	ptembe	r 2015				
	DAY	S	М	T \	N	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overca	st	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-70	)	70-85	85-	·up
ISGS Injections Former Process Area	WIND	Still	Mod.	High		Repo	ort No.	44
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Humid	I			

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area

### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP140 and IP156.
- List of partially completed points as of 8/31: IP031, IP048, IP050, IP058, IP062, IP071, IP079, IP082, IP108, IP110, IP117, IP155, IP166, IP180, IP186, IP195, IP196, IP201, IP202, IP204, IP209, IP210, IP211, IP216, IP222.
- Total of injections points completed to date: 212 of 254.

## **PERSONNEL ON-SITE:**

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech J. D. Spalding

### **WORK PERFORMED:**

Site Weather – Warm and humid, 85°F, partly cloudy.

- 0730 Abandoning points and setting up to begin injections.
- 0830 Crews continue abandoning points will begin injections soon. J.D. Spalding (Tetra Tech) onsite.
- 1000 Injections starting at IP201 and IP140.
- 1015 Daylighting approximately 2' from rods at IP201.
- 1030 Injections starting at IP186, injections continue at IP140.
- 1200 Injections stopped at IP186 due to daylighting. Injections ongoing at IP156 and IP172, injections complete at IP140.
- 1300 Injections continue at IP156 and IP172.
- 1430 Injections continue at IP156 and IP172.
- 1500 Injections complete at IP156, crew moving to IP209. Injections continue at IP172.
- 1600 IP172 injections stopped, crew moving to IP222. Injections continue at IP209.

	DATE	14 Se	ptembe	r 2015			
	DAY	S	М	T W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overcast	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-70	70-85	85-	-up
ISGS Injections Former Process Area	WIND	Still	Mod.	High	Repo	ort No.	44
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Humid			

1615 – Daylighting at IP222, crew pushing rods deeper to try deeper interval.

1630 – Daylighting occurs again at IP222, injections stopped. Ground bulging around rods at IP209, not daylighting seen. Injections stopped to allow pressure to dissipate at IP209. Crews shutting down for day.

# **QUALITY CONTROL ACTIVITIES:**

• J.M. Waller and Tetra Tech oversight personnel onsite.

### **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

• All activities performed in Level D.

# PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

• Bulging of ground around rods at IP209 / stopped injections to allow pressure to dissipate...

# SPECIAL NOTES:

• None.

# **EXPECTATIONS FOR September 15, 2015:**

• Crew will continue injections at IP209 and IP222.

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP223	7/10/2015	
IP224	7/10/2015	
IP230	7/10/2015	
IP238	7/10/2015	
IP017	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP191	7/11/2015	
IP205	7/11/2015	
IP218	7/11/2015	
IP231	7/11/2015	
IP237	7/11/2015	
IP093	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP245	7/12/2015	
IP250	7/12/2015	
IP251	7/12/2015	
IP067	7/13/2015	
IP076	7/13/2015	
IP239	7/13/2015	
IP247	7/13/2015	
IP005	7/14/2015	
IP010	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP084	7/14/2015	
IP101	7/14/2015	
IP102	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP009	7/16/2015	
IP018	7/16/2015	
IP169	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP025	7/17/2015	
IP029	7/17/2015	Daylighting of water from nearby recovery well.
IP033	7/17/2015	
IP226	7/20/2015	

IP228	7/20/2015	
10004	7/24/2045	Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP225	7/21/2015	
IP249	7/21/2015	
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	
IP023	7/22/2015	
IP037	7/22/2015	
IP190	7/22/2015	
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP045	7/24/2015	Some daylighting around rods.
IP053	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	
IP052	7/27/2015	
IP060	7/27/2015	
IP145	7/27/2015	
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP242	7/27/2015	
IP059	7/28/2015	
IP068	7/28/2015	
IP069	7/28/2015	
IP075	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP160	7/28/2015	
IP044	7/29/2015	
IP046	7/29/2015	Daylighting around rods.
IP061	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
IP176	7/29/2015	
IP008	7/30/2015	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10046	7/00/00:-	A second point for IP012 was added to injection points since IP012 was
IP012	7/30/2015	offset a large distance from its original location
IP024	7/30/2015	
IP086	7/30/2015	
IP118	7/30/2015	
IP153	7/30/2015	
IP047	7/31/2015	
IP136	7/31/2015	
IPO22	8/3/2015	
IP066	8/3/2015	
IP083	8/3/2015	Daylighting around rods.
IP087	8/3/2015	
IP096	8/3/2015	
IP113	8/3/2015	
IP027	8/4/2015	
IP051	8/4/2015	

IP080	
IP240	
IP241	
IP040     8/5/2015       IP115     8/5/2015       IP175     8/5/2015       IP072     8/6/2015       IP081     8/6/2015       IP089     8/6/2015       IP109     8/6/2015	
IP115     8/5/2015       IP175     8/5/2015       IP072     8/6/2015       IP081     8/6/2015       IP089     8/6/2015       IP109     8/6/2015	
IP175     8/5/2015       IP072     8/6/2015       IP081     8/6/2015       IP089     8/6/2015       IP109     8/6/2015	
IP072     8/6/2015       IP081     8/6/2015       IP089     8/6/2015       IP109     8/6/2015	
IP081     8/6/2015       IP089     8/6/2015       IP109     8/6/2015	
IP089 8/6/2015 IP109 8/6/2015	
IP109 8/6/2015	
IP126   8/6/2015	
IP159 8/6/2015 Minimal daylighting around rods.	
IP091 8/7/2015	
IP098 8/7/2015	
IP107 8/10/2015	
IP124 8/10/2015	
IP099 8/11/2015	
IP133 8/11/2015	
IP142 8/11/2015	
IP182 8/11/2015	
IP203 8/11/2015	
IP039 8/12/2015	
IP106 8/12/2015 Daylighting around rods.	
IP215 8/12/2015	
IP055 8/14/2015	
IP135 8/14/2015	
IP035 8/17/2015	
IP049 8/17/2015	
IP030 8/18/2015	
IP034 8/18/2015	
IP065 8/18/2015	
IP100 8/18/2015 Several incidences of daylighting around rods.	
IP144 8/18/2015	
IP246 8/18/2015	
IP244 8/19/2015	
IP057 8/20/2015	
IP097 8/20/2015	
IP105 8/20/2015	
IP152 8/20/2015	
IP174 8/20/2015 Issues with nearby well daylighting water, no reagent dayl	ighted.
IP189 8/20/2015 Daylighting around rods.	
IP074 8/21/2015	
IP141 8/21/2015	
IP150 8/24/2015	
IP214 8/24/2015	
IP243 8/24/2015	
IP070 8/25/2015	
IP125 8/25/2015	
IP132 8/25/2015	
IP134 8/25/2015	

ID1.42	0/25/2015	
IP143	8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP139	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP114	8/27/2015	
IP122	8/27/2015	
IP193	8/28/2015	
IP157	8/31/2015	
IP171	8/31/2015	
IP178	8/31/2015	
IP185	8/31/2015	
IP026	9/1/2015	
IP138	9/1/2015	
IP146	9/1/2015	
IP147	9/1/2015	
IP162	9/1/2015	
IP252	9/1/2015	
IP020	9/2/2015	
IP036	9/2/2015	
IP041	9/2/2015	
IP151	9/2/2015	
IP163	9/2/2015	
IP177	9/2/2015	
IP207	9/2/2015	
IP219	9/2/2015	
IP158	9/3/2015	
IP167	9/3/2015	Daylighting issues.
IP192	9/3/2015	
IP206	9/3/2015	
IP212	9/3/2015	
IP217	9/3/2015	
IP227	9/3/2015	
IP170	9/4/2015	
IP184	9/4/2015	
IP188	9/4/2015	
IP199	9/4/2015	
IP200	9/8/2015	
IP208	9/8/2015	
IP213	9/8/2015	Daylighting approximately 5' from rods.
IP221	9/8/2015	
IP248	9/8/2015	
IP038	9/9/2015	
IP054	9/9/2015	
IP123	9/9/2015	
IP187	9/9/2015	
IP006	9/10/2015	
IP056	9/10/2015	
IP077	9/10/2015	

IP088	9/10/2015	
IP149	9/10/2015	Minimal daylighting.
IP179	9/10/2015	
IP197	9/10/2015	
TIP 380N/180E	9/10/2015	
IP165	9/11/2015	
IP194	9/11/2015	
IP253	9/11/2015	
IP220	9/11/2015	
IP140	9/14/2015	
IP156	9/14/2015	

	DATE	15 Se	ptembe	r 2015	<u> </u>			
	DAY	S	М	Т	W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Over	cast	Rain	Fog/	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50- <sup>-</sup>	70	70-85	85-	-up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hig	gh	Repo	ort No.	45
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hum	nid			

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area

### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP209, IP110, IP155, IP050, IP058, IP042, and IP166.
- List of partially completed points as of 9/15: IP031, IP048, IP062, IP071, IP079, IP082, IP108, IP117, IP180, IP186, IP195, IP196, IP201, IP202, IP204, IP210, IP211, IP216, IP222.
- Total of injections points completed to date: 219 of 254.

### **PERSONNEL ON-SITE:**

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech J. D. Spalding

### WORK PERFORMED:

Site Weather – Warm and humid, 85°F, partly cloudy.

- 0730 Injections ongoing at IP209 and IP222. Crews pulling rods and abandoning points next
- 0900 IP209 complete, IP222 remains incomplete. Abandoning points and moving to IP155 and IP110 soon.
- 0915 Tetra Tech surveyors onsite marking out boring locations for upcoming investigative work for cutoff wall.
- 1000 Site tour for Superfund Art Project 2.0 group.
- 1300 EPA monthly conference call.
- 1400 IP110, IP155, IP050, and IP058 complete. Injections ongoing at IP166 and starting soon at IP042. Some soil bulging approximately 5' from rods at IP166, no daylighting observed.
- 1515 Injections complete at IP166 and IP042, crews shutting down for the day.

### **QUALITY CONTROL ACTIVITIES:**

• J.M. Waller and Tetra Tech oversight personnel onsite.

### **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

• All activities performed in Level D.

## PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

Bulging of ground around rods at IP166.

	DATE	15 Se	ptembe	r 201	5			
	DAY	S	М	Т	W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Ove	rcast	Rain	Fog/	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50	-70	70-85	85	-up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hi	gh	Repo	ort No.	45
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hur	mid			

# SPECIAL NOTES:

• None.

# **EXPECTATIONS FOR September 16, 2015:**

• Crew will continue injections at partially completed points.

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP223	7/10/2015	
IP224	7/10/2015	
IP230	7/10/2015	
IP238	7/10/2015	
IP017	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP191	7/11/2015	
IP205	7/11/2015	
IP218	7/11/2015	
IP231	7/11/2015	
IP237	7/11/2015	
IP093	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP245	7/12/2015	
IP250	7/12/2015	
IP251	7/12/2015	
IP067	7/13/2015	
IP076	7/13/2015	
IP239	7/13/2015	
IP247	7/13/2015	
IP005	7/14/2015	
IP010	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP084	7/14/2015	
IP101	7/14/2015	
IP102	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP009	7/16/2015	
IP018	7/16/2015	
IP169	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP025	7/17/2015	
IP029	7/17/2015	Daylighting of water from nearby recovery well.
IP033	7/17/2015	
IP226	7/20/2015	

IP228	7/20/2015	
10004	7/24/2045	Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP225	7/21/2015	
IP249	7/21/2015	
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	
IP023	7/22/2015	
IP037	7/22/2015	
IP190	7/22/2015	
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP045	7/24/2015	Some daylighting around rods.
IP053	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	
IP052	7/27/2015	
IP060	7/27/2015	
IP145	7/27/2015	
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP242	7/27/2015	
IP059	7/28/2015	
IP068	7/28/2015	
IP069	7/28/2015	
IP075	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP160	7/28/2015	
IP044	7/29/2015	
IP046	7/29/2015	Daylighting around rods.
IP061	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
IP176	7/29/2015	
IP008	7/30/2015	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10046	7/00/00:-	A second point for IP012 was added to injection points since IP012 was
IP012	7/30/2015	offset a large distance from its original location
IP024	7/30/2015	
IP086	7/30/2015	
IP118	7/30/2015	
IP153	7/30/2015	
IP047	7/31/2015	
IP136	7/31/2015	
IPO22	8/3/2015	
IP066	8/3/2015	
IP083	8/3/2015	Daylighting around rods.
IP087	8/3/2015	
IP096	8/3/2015	
IP113	8/3/2015	
IP027	8/4/2015	
IP051	8/4/2015	

IDOSO	9/4/2015	
IP080	8/4/2015	
IP127	8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP040	8/5/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP081	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP126	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP091	8/7/2015	
IP098	8/7/2015	
IP107	8/10/2015	
IP124	8/10/2015	
IP099	8/11/2015	
IP133	8/11/2015	
IP142	8/11/2015	
IP182	8/11/2015	
IP203	8/11/2015	
IP039	8/12/2015	
IP106	8/12/2015	Daylighting around rods.
IP215	8/12/2015	
IP055	8/14/2015	
IP135	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP034	8/18/2015	
IP065	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP144	8/18/2015	
IP246	8/18/2015	
IP244	8/19/2015	
IP057	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP152	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
IP074	8/21/2015	
IP141	8/21/2015	
IP150	8/24/2015	
IP214	8/24/2015	
IP243	8/24/2015	
IP070	8/25/2015	
IP125	8/25/2015	
IP132	8/25/2015	
IP134	8/25/2015	

ID1.42	0/25/2015	
IP143	8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP139	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP114	8/27/2015	
IP122	8/27/2015	
IP193	8/28/2015	
IP157	8/31/2015	
IP171	8/31/2015	
IP178	8/31/2015	
IP185	8/31/2015	
IP026	9/1/2015	
IP138	9/1/2015	
IP146	9/1/2015	
IP147	9/1/2015	
IP162	9/1/2015	
IP252	9/1/2015	
IP020	9/2/2015	
IP036	9/2/2015	
IP041	9/2/2015	
IP151	9/2/2015	
IP163	9/2/2015	
IP177	9/2/2015	
IP207	9/2/2015	
IP219	9/2/2015	
IP158	9/3/2015	
IP167	9/3/2015	Daylighting issues.
IP192	9/3/2015	
IP206	9/3/2015	
IP212	9/3/2015	
IP217	9/3/2015	
IP227	9/3/2015	
IP170	9/4/2015	
IP184	9/4/2015	
IP188	9/4/2015	
IP199	9/4/2015	
IP200	9/8/2015	
IP208	9/8/2015	
IP213	9/8/2015	Daylighting approximately 5' from rods.
IP221	9/8/2015	
IP248	9/8/2015	
IP038	9/9/2015	
IP054	9/9/2015	
IP123	9/9/2015	
IP187	9/9/2015	
IP006	9/10/2015	
IP056	9/10/2015	
IP077	9/10/2015	

IP088	9/10/2015	
IP149	9/10/2015	Minimal daylighting.
		ivininiai uayngnung.
IP179	9/10/2015	
IP197	9/10/2015	
TIP 380N/180E	9/10/2015	
IP165	9/11/2015	
IP194	9/11/2015	
IP253	9/11/2015	
IP220	9/11/2015	
IP140	9/14/2015	
IP156	9/14/2015	
IP209	9/15/2015	Ground bulging around rods, no daylighting.
IP110	9/15/2015	
IP155	9/15/2015	
IP050	9/15/2015	
IP058	9/15/2015	
IP042	9/15/2015	
IP166	9/15/2015	Ground bulging approximately 5' from rods, no daylighting.

	DATE 16 September 2015							
	DAY	S	М	Т	W	тн	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Ove	rcast	Rain Fog/		Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-	-70	70-85	85-	up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hi	gh	Repo	ort No.	46
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hur	nid			

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area

### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP201, IP186, IP172, IP156, and IP196.
- List of partially completed points as of 9/15: IP048, IP108, IP116, IP117, IP167, IP173, IP180, IP181, IP195, IP202, IP210, IP211, IP222.
- Total of injections points completed to date: 229 of 254.

### **PERSONNEL ON-SITE:**

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech J. D. Spalding

### **WORK PERFORMED:**

Site Weather – Warm and humid, 85°F, partly cloudy.

- 0730 Crews pulling rods and abandoning points and setting up on IP201.
- 0800 Injections ongoing at IP201, injections starting soon at IP116.
- 0900 Injections ongoing at IP201 and IP116.
- 0930 IP201 complete, crew moving to IP186. Injections continue at IP116.
- 1000 Injections ongoing at IP116 and IP186. J.D. Spalding (Tetra Tech) has provided an updated log of points.
- 1100 IP116 incomplete, daylighting around rods. Attempted injections at IP181, could not inject due to tight formation. IP186 complete, injections ongoing at IP172 and IP210.
- 1200 IP172 complete, injections ongoing at IP156. Daylighting at IP210, injecting at IP202 now.
- 1300 Injections continue at IP156. Daylighting approximately 10' from rods at IP202. Repairs being done on AMS rig.
- 1430 Injections continue at IP156. AMS rig still being repaired.
- 1445 Injections complete at IP156, injections starting at IP196.

**EXPECTATIONS FOR September 17, 2015:** 

• Crew will continue injections at partially completed points.

	DATE	16 September 2015							
		s	М	т	w	TH	F	S	
	DAY	3	IVI	'	**	1 '''	1	3	
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overc	ast	Rain	Fog/	Haze	
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-70		70-85	85-up		
ISGS Injections Former Process Area	WIND	Still	Mod.	High		Report No. 46		46	
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Humi	id			_	
1500 – Injections complete at IP196, shutting down for the rest of the day.  QUALITY CONTROL ACTIVITIES:  • J.M. Waller and Tetra Tech oversight personnel onsite.  HEALTH AND SAFETY LEVELS AND ACTIVITIES:									
All activities performed in Level D.     PROBLEMS ENCOUNTERED/CORRECTION     None.	ACTION TAKEN:								
SPECIAL NOTES:  • None.									

	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP223	7/10/2015	
IP224	7/10/2015	
IP230	7/10/2015	
IP238	7/10/2015	
IP017	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP191	7/11/2015	
IP205	7/11/2015	
IP218	7/11/2015	
IP231	7/11/2015	
IP237	7/11/2015	
IP093	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP245	7/12/2015	
IP250	7/12/2015	
IP251	7/12/2015	
IP067	7/13/2015	
IP076	7/13/2015	
IP239	7/13/2015	
IP247	7/13/2015	
IP005	7/14/2015	
IP010	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP084	7/14/2015	, , ,
IP101	7/14/2015	
IP102	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP009	7/16/2015	
IP018	7/16/2015	
IP169	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP204	7/16/2015	
IP216	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP025	7/17/2015	
IP029	7/17/2015	Daylighting of water from nearby recovery well.

IP033	7/17/2015	
IP226	7/20/2015	
IP228	7/20/2015	
223	7/20/2013	
		Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
IP014	7/21/2015	due to the proximity of the point to the interceptor trendin
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP225	7/21/2015	Significant daying thing occurred at this point around the road.
IP249	7/21/2015	
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	ivininia adyngitang arodna rods.
IP023	7/22/2015	
IP037	7/22/2015	
IP190	7/22/2015	
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP045	7/24/2015	Some daylighting around rods.
IP053	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	Some daying mining dround rous.
IP052	7/27/2015	
IP060	7/27/2015	
IP145	7/27/2015	
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP242	7/27/2015	Buying itting around rous at materple intervals.
IP059	7/28/2015	
IP068	7/28/2015	
IP069	7/28/2015	
IP075	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP160	7/28/2015	
IP044	7/29/2015	
IP046	7/29/2015	Daylighting around rods.
IP061	7/29/2015	Daylighting around rods.
IP031	7/29/2015	7,6 - 6
IP078	7/29/2015	
IP176	7/29/2015	
IP008	7/30/2015	
		A second point for IP012 was added to injection points since IP012 was
IP012	7/30/2015	offset a large distance from its original location
IP024	7/30/2015	
IP086	7/30/2015	
IP118	7/30/2015	
IP153	7/30/2015	
IP047	7/31/2015	
IP136	7/31/2015	
IP022	8/3/2015	
IP066	8/3/2015	
IP083	8/3/2015	Daylighting around rods.
IP087	8/3/2015	-
IP096	8/3/2015	

IP113	0/2/2015	1
	8/3/2015	
IP027	8/4/2015	
IP051	8/4/2015	
IP080	8/4/2015	
IP127	8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP040	8/5/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP081	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP126	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP091	8/7/2015	
IP098	8/7/2015	
IP107	8/10/2015	
IP124	8/10/2015	
IP099	8/11/2015	
IP133	8/11/2015	
IP142	8/11/2015	
IP182	8/11/2015	
IP203	8/11/2015	
IP039	8/12/2015	
IP071	8/12/2015	
IP082	8/12/2015	
IP106	8/12/2015	Daylighting around rods.
IP215	8/12/2015	
IP055	8/14/2015	
IP135	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP034	8/18/2015	
IP065	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP144	8/18/2015	
IP246	8/18/2015	
IP244	8/19/2015	
IP057	8/20/2015	
IP079	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP152	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
IP074	8/21/2015	, , , , , , , , , , , , , , , , , , , ,
IP141	8/21/2015	
IP150	8/24/2015	
150	5,21,2013	

IP214	8/24/2015	
IP214 IP243	8/24/2015	
IP070	8/25/2015	
IP125		
IP125 IP132	8/25/2015	
	8/25/2015	
IP134	8/25/2015	
IP143	8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP139	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP114	8/27/2015	
IP122	8/27/2015	
IP193	8/28/2015	
IP157	8/31/2015	
IP171	8/31/2015	
IP178	8/31/2015	
IP185	8/31/2015	
IP026	9/1/2015	
IP138	9/1/2015	
IP146	9/1/2015	
IP147	9/1/2015	
IP162	9/1/2015	
IP252	9/1/2015	
IP020	9/2/2015	
IP036	9/2/2015	
IP041	9/2/2015	
IP151	9/2/2015	
IP163	9/2/2015	
IP177	9/2/2015	
IP207	9/2/2015	
IP219	9/2/2015	
IP158	9/3/2015	
IP167	9/3/2015	Daylighting issues.
IP192	9/3/2015	
IP206	9/3/2015	
IP212	9/3/2015	
IP217	9/3/2015	
IP227	9/3/2015	
IP170	9/4/2015	
IP184	9/4/2015	
IP188	9/4/2015	
IP199	9/4/2015	
IP200	9/8/2015	
IP208	9/8/2015	
IP213	9/8/2015	Daylighting approximately 5' from rods.
IP221	9/8/2015	10
IP248	9/8/2015	
IP038	9/9/2015	
11 030	1 3/3/2013	1

IP054	9/9/2015	
IP123	9/9/2015	
IP187	9/9/2015	
IP006	9/10/2015	
IP056	9/10/2015	
IP077	9/10/2015	
IP088	9/10/2015	
IP149	9/10/2015	Minimal daylighting.
IP179	9/10/2015	
IP197	9/10/2015	
TIP 380N/180E	9/10/2015	
IP165	9/11/2015	
IP194	9/11/2015	
IP253	9/11/2015	
IP220	9/11/2015	
IP140	9/14/2015	
IP156	9/14/2015	
IP209	9/15/2015	Ground bulging around rods, no daylighting.
IP110	9/15/2015	
IP155	9/15/2015	
IP050	9/15/2015	
IP058	9/15/2015	
IP042	9/15/2015	
IP166	9/15/2015	Ground bulging approximately 5' from rods, no daylighting.
IP201	9/16/2015	
IP186	9/16/2015	
IP172	9/16/2015	
IP156	9/16/2015	
IP196	9/16/2015	

	DATE	17 Se	ptembe	r 201	5			
	DAY	S	М	Т	W	тн	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Ove	rcast	Rain	Fog/Haze	
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50	-70	70-85	85-up	
ISGS Injections Former Process Area	WIND	Still	Mod.	Hi	High Repo		ort No.	47
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hur	nid			

47 Camtamalaan 0045

DATE

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area

### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP116\*, IP117\*, IP180\*, IP194\*, IP202\*, IP210\*, IP222\*, IP127, IP094, IP196, IP195, IP181, and IP167.
- \* Points deemed complete by PMs (Project Managers) due to exhaustive efforts to inject and complete all intervals. Continued daylighting, refusal, or deleted intervals despite driller's best efforts to mitigate problems.
- A decision was made to continue to try to complete remaining partially completed points, not deleted by PMs, to an exhaustive effort. Meaning injections will be attempted at the partially completed points until it is demonstrated that there is no possibility of completing remaining intervals due to daylighting or refusal. At this point they will be declared completed.
- List of partially completed points as of 9/17: IP048 and IP173.
- Total of injections points completed to date: 240 of 254.

### PERSONNEL ON-SITE:

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech J. D. Spalding

#### **WORK PERFORMED:**

Site Weather – Warm and humid, 85°F, partly cloudy.

- 0730 Crews pulling rods and abandoning points and setting up equipment to begin organo-clay pilot area injections.
- 0900 One crew (AMS) will continue to complete partially completed points while the other crew (Geoprobe) will start at IP094 in the organ-clay pilot area.
- 0930 Injections ongoing at IP127 and IP094.
- 1030 IP127 complete, crew moving to IP196. Injections continue at IP094.
- 1000 Injections ongoing at IP116 and IP186. J.D. Spalding (Tetra Tech) has provided an updated log of points.
- 1100 IP094 complete, crew moving to IP095. Injections continue at IP196.
- 1200 IP196 complete, injections ongoing at IP181. Injections continue at IP095. J.D. Spalding stated that an

	DATE	17 September 2015					
	DAY	S	М	T W	ТН	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overcast	Rain	Fog/Haze	
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-70	70-85	85-	·up
ISGS Injections Former Process Area	WIND	Still	Mod.	High	Report No		47
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Humid			

internal conference call was held yesterday to discuss the remaining points. Points were prioritized and some points were deleted and deemed complete due to several attempts to complete all intervals but failure to do so because of repeated issues with daylighting or refusal. Also, some points/intervals were deleted due to proximity to underground structures, e.g. interceptor trench, at an earlier date. A list of the deleted/completed points is as follows:

- IP116
- IP117
- IP180
- IP194
- IP202
- IP210
- IP222
- 1300 Minimal daylighting at both IP181 and IP095 will reattempt intervals.
- 1400 IP181 completed by exhaustive effort. IP195 has also been completed. Injections ongoing at IP173 and IP095.
- 1500 Injections continue at IP095 and IP173.
- 1545 Injections stopped at IP173 will return to this point tomorrow. Crew has completed IP167, injections continue at IP095.
- 1615 Significant amount of daylighting around rods at IP095, crew shutting down for the day. Crews will reattempt IP173 and IP095 tomorrow.

## **QUALITY CONTROL ACTIVITIES:**

J.M. Waller and Tetra Tech oversight personnel onsite.

## **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

All activities performed in Level D.

## PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

None.

### SPECIAL NOTES:

• A decision was made to continue to try to complete remaining partially completed points, not deleted by PMs, to an exhaustive effort. Meaning injections will be attempted at the partially completed points until it is demonstrated that there is no possibility of completing remaining intervals due to daylighting or refusal. At

	DATE	17 September 2015						
	DAY	S	М	Т	W	тн	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Over	cast	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	32-50 50-70 70-85		85-	·up	
ISGS Injections Former Process Area	WIND	Still	Mod.	Hi	gh	Repo	ort No.	47
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hun	nid			_

this point they will be declared completed.

**EXPECTATIONS FOR September 18, 2015:** 

• Crew will continue injections at IP095 and IP173.

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP223	7/10/2015	
IP224	7/10/2015	
IP230	7/10/2015	
IP238	7/10/2015	
IP017	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP191	7/11/2015	
IP205	7/11/2015	
IP203	7/11/2015	
IP218	7/11/2015	
IP231	7/11/2015	
IP093		
	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP245	7/12/2015	
IP250	7/12/2015	
IP251	7/12/2015	
IP067	7/13/2015	
IP076	7/13/2015	
IP239	7/13/2015	
IP247	7/13/2015	
IP005	7/14/2015	
IPO10	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP084	7/14/2015	
IP101	7/14/2015	
IP102	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP009	7/16/2015	
IP018	7/16/2015	
IP169	7/16/2015	
IP204	7/16/2015	
IP216	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP025	7/17/2015	
IP029	7/17/2015	Daylighting of water from nearby recovery well.

IP033	7/17/2015	
IP226	7/20/2015	
IP228	7/20/2015	
220	7,20,2013	
		Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
IP014	7/21/2015	add to the proximity of the point to the interceptor trendin
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP225	7/21/2015	organical adjugation ground at the point around the read-
IP249	7/21/2015	
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	
IP023	7/22/2015	
IP037	7/22/2015	
IP190	7/22/2015	
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP045	7/24/2015	Some daylighting around rods.
IP053	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	
IP052	7/27/2015	
IP060	7/27/2015	
IP145	7/27/2015	
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP242	7/27/2015	
IP059	7/28/2015	
IP068	7/28/2015	
IP069	7/28/2015	
IP075	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP160	7/28/2015	
IP031	7/29/2015	
IP044	7/29/2015	
IP046	7/29/2015	Daylighting around rods.
IP061	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
IP176	7/29/2015	
IP008	7/30/2015	
		A second point for IP012 was added to injection points since IP012 was
IP012	7/30/2015	offset a large distance from its original location
IP024	7/30/2015	
IP086	7/30/2015	
IP118	7/30/2015	
IP153	7/30/2015	
IP047	7/31/2015	
IP136	7/31/2015	
IP022	8/3/2015	
IP066	8/3/2015	
IP083	8/3/2015	Daylighting around rods.
IP087	8/3/2015	
IP096	8/3/2015	

IP113	8/3/2015	1
IP027	8/4/2015	
IP027		
IP080	8/4/2015 8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP040	8/5/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP081	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP126	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP091	8/7/2015	
IP098	8/7/2015	
IP107	8/10/2015	
IP124	8/10/2015	
IP099	8/11/2015	
IP133	8/11/2015	
IP142	8/11/2015	
IP182	8/11/2015	
IP203	8/11/2015	
IP039	8/12/2015	
IP071	8/12/2015	
IP082	8/12/2015	
IP106	8/12/2015	Daylighting around rods.
IP215	8/12/2015	
IP055	8/14/2015	
IP135	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP034	8/18/2015	
IP065	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP144	8/18/2015	
IP246	8/18/2015	
IP244	8/19/2015	
IP057	8/20/2015	
IP079	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP152	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
IP074	8/21/2015	
IP141	8/21/2015	
IP150	8/24/2015	
IP214	8/24/2015	
	-, = :, ====	L

IP243	9/24/2015	
IP243	8/24/2015	
IP125	8/25/2015	
	8/25/2015	
IP132	8/25/2015	
IP134	8/25/2015	
IP143	8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP139	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP114	8/27/2015	
IP122	8/27/2015	
IP193	8/28/2015	
IP157	8/31/2015	
IP171	8/31/2015	
IP178	8/31/2015	
IP185	8/31/2015	
IP026	9/1/2015	
IP138	9/1/2015	
IP146	9/1/2015	
IP147	9/1/2015	
IP162	9/1/2015	
IP252	9/1/2015	
IP020	9/2/2015	
IP036	9/2/2015	
IP041	9/2/2015	
IP151	9/2/2015	
IP163	9/2/2015	
IP177	9/2/2015	
IP207	9/2/2015	
IP219	9/2/2015	
IP158	9/3/2015	
IP192	9/3/2015	
IP206	9/3/2015	
IP212	9/3/2015	
IP217	9/3/2015	
IP227	9/3/2015	
IP170	9/4/2015	
IP184	9/4/2015	
IP188	9/4/2015	
IP199	9/4/2015	
IP200	9/8/2015	
IP208	9/8/2015	
IP213	9/8/2015	Daylighting approximately 5' from rods.
IP221	9/8/2015	
IP248	9/8/2015	
IP038	9/9/2015	
IP054	9/9/2015	
IP123	9/9/2015	

104.07	0/0/2015	I
IP187	9/9/2015	
IP006	9/10/2015	
IP056	9/10/2015	
IP077	9/10/2015	
IP149	9/10/2015	Minimal daylighting.
IP179	9/10/2015	
IP197	9/10/2015	
TIP 380N/180E	9/10/2015	
IP165	9/11/2015	
IP220	9/11/2015	
IP253	9/11/2015	
IP140	9/14/2015	
IP042	9/15/2015	
IP050	9/15/2015	
IP058	9/15/2015	
IP110	9/15/2015	
IP155	9/15/2015	
IP166	9/15/2015	Ground bulging approximately 5' from rods, no daylighting.
IP209	9/15/2015	Ground bulging around rods, no daylighting.
IP156	9/16/2015	7 2 2
IP172	9/16/2015	
IP186	9/16/2015	
IP201	9/16/2015	
IP094	9/17/2015	
IP116*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP117*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP127	9/17/2015	
IP167	9/17/2015	Daylighting issues.
IP180*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP181	9/17/2015	
IP194*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP195	9/17/2015	
IP196	9/17/2015	
IP202*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP210*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP222*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP063	?	Previously completed, date missing.
IP064	Ş	Previously completed, date missing.
IP108	Ş	Previously completed, date missing.
IP211	,	Previously completed, date missing.

	DATE	18 Se	<u>ptembe</u>	r 2015	5			
	DAY	S	М	Т	W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Over	cast	Rain	Fog/l	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-	70	70-85	85-	-up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hiç	gh	Repo	ort No.	48
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hun	nid			

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area

### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP095, IP173, IP111, IP103, IP120, and IP121.
- List of partially completed points as of 9/18: IP048.
- Total of injections points completed to date: 246 of 254.

#### PERSONNEL ON-SITE:

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech J. D. Spalding

### **WORK PERFORMED:**

Site Weather – Warm and humid, 85°F, rain.

- 0715 Crews pulling rods and abandoning points and setting up to continue injections at IP173 and IP095.
- 0800 Crews continue to abandon points.
- 0900 Injections ongoing at IP173 and IP095.
- 0915 IP173 has been deemed complete due to exhaustive effort, some daylighting persisted. AMS rig being used to abandon points then mix trailer will be moved to a closer proximity with the organo-clay pilot area.
- 0930 IP095 complete, crew moving to IP111.
- 1000 Crew continues to move trailer and equipment. Rods being pushed down at IP111.
- 1100 IP111 complete, moving to IP103. Other crew continues to move trailer and equipment.
- 1145 Pushing rods down at IP103 and IP121.
- 1200 Injections ongoing at IP103 and IP121.
- 1345 Injections complete at IP103, crew moving to IP120. Injections continue at IP121.
- 1445 Injections complete at IP121, injections continue at IP120.

	DATE	18 September 2015					
	DAY	S	М	T W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overcast	Rain	Fog/H	laze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-70	70-85	85-u	qı
ISGS Injections Former Process Area	WIND	Still	Mod.	High	Repo	ort No. 4	48
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Humid			

1515 – Injections complete at IP121, crews shutting down.

# **QUALITY CONTROL ACTIVITIES:**

J.M. Waller and Tetra Tech oversight personnel onsite.

# **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

All activities performed in Level D.

# PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

None.

# SPECIAL NOTES:

None.

# **EXPECTATIONS FOR September 21, 2015:**

- Crew will continue injections at organo-clay pilot area points.
- Weston will mobilize to Cabot site and begin installation of Floridan well.

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP223	7/10/2015	
IP224	7/10/2015	
IP230	7/10/2015	
IP238	7/10/2015	
IP017	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP191	7/11/2015	
IP205	7/11/2015	
IP203	7/11/2015	
IP218	7/11/2015	
IP231	7/11/2015	
IP093		
	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP245	7/12/2015	
IP250	7/12/2015	
IP251	7/12/2015	
IP067	7/13/2015	
IP076	7/13/2015	
IP239	7/13/2015	
IP247	7/13/2015	
IP005	7/14/2015	
IPO10	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP084	7/14/2015	
IP101	7/14/2015	
IP102	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP009	7/16/2015	
IP018	7/16/2015	
IP169	7/16/2015	
IP204	7/16/2015	
IP216	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP025	7/17/2015	
IP029	7/17/2015	Daylighting of water from nearby recovery well.

IP033	7/17/2015	
IP226	7/20/2015	
IP228	7/20/2015	
220	7,20,2013	
		Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
IP014	7/21/2015	add to the proximity of the point to the interceptor trendin
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP225	7/21/2015	organical adjugation ground at the point around the read-
IP249	7/21/2015	
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	
IP023	7/22/2015	
IP037	7/22/2015	
IP190	7/22/2015	
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP045	7/24/2015	Some daylighting around rods.
IP053	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	
IP052	7/27/2015	
IP060	7/27/2015	
IP145	7/27/2015	
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP242	7/27/2015	
IP059	7/28/2015	
IP068	7/28/2015	
IP069	7/28/2015	
IP075	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP160	7/28/2015	
IP031	7/29/2015	
IP044	7/29/2015	
IP046	7/29/2015	Daylighting around rods.
IP061	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
IP176	7/29/2015	
IP008	7/30/2015	
		A second point for IP012 was added to injection points since IP012 was
IP012	7/30/2015	offset a large distance from its original location
IP024	7/30/2015	
IP086	7/30/2015	
IP118	7/30/2015	
IP153	7/30/2015	
IP047	7/31/2015	
IP136	7/31/2015	
IP022	8/3/2015	
IP066	8/3/2015	
IP083	8/3/2015	Daylighting around rods.
IP087	8/3/2015	
IP096	8/3/2015	

IP113	8/3/2015	1
IP027	8/4/2015	
IP027		
IP080	8/4/2015 8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP040	8/5/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP081	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP126	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP091	8/7/2015	
IP098	8/7/2015	
IP107	8/10/2015	
IP124	8/10/2015	
IP099	8/11/2015	
IP133	8/11/2015	
IP142	8/11/2015	
IP182	8/11/2015	
IP203	8/11/2015	
IP039	8/12/2015	
IP071	8/12/2015	
IP082	8/12/2015	
IP106	8/12/2015	Daylighting around rods.
IP215	8/12/2015	
IP055	8/14/2015	
IP135	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP034	8/18/2015	
IP065	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP144	8/18/2015	
IP246	8/18/2015	
IP244	8/19/2015	
IP057	8/20/2015	
IP079	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP152	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
IP074	8/21/2015	
IP141	8/21/2015	
IP150	8/24/2015	
IP214	8/24/2015	
	-, = :, ====	L

IP243	9/24/2015	
IP243	8/24/2015	
IP125	8/25/2015	
	8/25/2015	
IP132	8/25/2015	
IP134	8/25/2015	
IP143	8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP139	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP114	8/27/2015	
IP122	8/27/2015	
IP193	8/28/2015	
IP157	8/31/2015	
IP171	8/31/2015	
IP178	8/31/2015	
IP185	8/31/2015	
IP026	9/1/2015	
IP138	9/1/2015	
IP146	9/1/2015	
IP147	9/1/2015	
IP162	9/1/2015	
IP252	9/1/2015	
IP020	9/2/2015	
IP036	9/2/2015	
IP041	9/2/2015	
IP151	9/2/2015	
IP163	9/2/2015	
IP177	9/2/2015	
IP207	9/2/2015	
IP219	9/2/2015	
IP158	9/3/2015	
IP192	9/3/2015	
IP206	9/3/2015	
IP212	9/3/2015	
IP217	9/3/2015	
IP227	9/3/2015	
IP170	9/4/2015	
IP184	9/4/2015	
IP188	9/4/2015	
IP199	9/4/2015	
IP200	9/8/2015	
IP208	9/8/2015	
IP213	9/8/2015	Daylighting approximately 5' from rods.
IP221	9/8/2015	
IP248	9/8/2015	
IP038	9/9/2015	
IP054	9/9/2015	
IP123	9/9/2015	

IP187	9/9/2015	
IP006	9/10/2015	
IP056	9/10/2015	
IP036	9/10/2015	
IP149	9/10/2015	Minimal daylighting.
IP149 IP179		iviiiiiiai uayiigiitiiig.
IP179 IP197	9/10/2015	
	9/10/2015	
TIP 380N/180E	9/10/2015	
IP165	9/11/2015	
IP220	9/11/2015	
IP253	9/11/2015	
IP140	9/14/2015	
IP042	9/15/2015	
IP050	9/15/2015	
IP058	9/15/2015	
IP110	9/15/2015	
IP155	9/15/2015	
IP166	9/15/2015	Ground bulging approximately 5' from rods, no daylighting.
IP209	9/15/2015	Ground bulging around rods, no daylighting.
IP156	9/16/2015	
IP172	9/16/2015	
IP186	9/16/2015	
IP201	9/16/2015	
IP094	9/17/2015	
IP116*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP117*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP127	9/17/2015	
IP167	9/17/2015	Daylighting issues.
IP180*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP181	9/17/2015	
IP194*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP195	9/17/2015	
IP196	9/17/2015	
IP202*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP210*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP222*	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP063	?	Previously completed, date missing.
IP064	?	Previously completed, date missing.
IP108	?	Previously completed, date missing.
IP211	?	Previously completed, date missing.
IP095	9/18/2015	Daylighting around rods.
IP173	9/18/2015	Daylighting issues.
IP111	9/18/2015	. 7 5 6
IP103	9/18/2015	
IL TOO	2/ 10/ 2013	

IP120	9/18/2015	
IP121	9/18/2015	

	DATE	21 September 2015							
	DAY	S	М	Т	W	TH	F	S	
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overca	ast	Rain	Fog/l	Haze	
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-70	)	70-85	85-	up	
ISGS Injections Former Process Area	WIND	Still	Mod.	High		Repo	ort No.	49	
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Humic	t				

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area

#### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP104, IP129, and IP130.
- List of partially completed points as of 9/21: IP048 and IP112.
- Total of injections points completed to date: 250 of 254.

#### PERSONNEL ON-SITE:

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech J. D. Spalding

### WORK PERFORMED:

Site Weather – Warm and humid, 85°F, partly cloudy.

- 0800 Crews pulling rods and abandoning points and setting up on IP104, using different tooling. A thinner set of rods will be used at IP104 due to the depth required, ~69'.
- 0930 Injections ongoing at IP104 and IP129.
- 1030 Injections complete at IP129, injections stopped at IP104 due to screen clogging. Crew having problems with AMS rig, repairs being made. Pushing rods down at IP130. Thompson Drilling and Weston have begun mobilizing to the Cabot property, i.e. delivering equipment. Thompson Drilling will begin drilling tomorrow.
- 1100 Injections ongoing at IP130. Repairs continue on AMS rig, down to one rig.
- 1200 Injections continue at IP104 and IP130.
- 1300 Injections continue at IP104 and IP130.
- 1400 IP130 and IP104 complete, injections caused significant daylighting approximately 10' from rods at IP104. However, all intervals were completed. Injections ongoing at IP112.
- 1500 Injections stopped at IP112 due to daylighting at pathway created by IP104. Stopping injections for the day.

# **QUALITY CONTROL ACTIVITIES:**

• J.M. Waller and Tetra Tech oversight personnel onsite.

# **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

	DATE	21 Se	ptembei	er 2015					
	DAY	S	M	Т	W	TH	F	S	
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overc	cast	Rain	Fog/l	Haze	
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-7	70	70-85	85-	·up	
ISGS Injections Former Process Area	WIND	Still Mod. High Re		Repo	ort No.	49			
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Humi	id				

• All activities performed in Level D.

# PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

None.

# SPECIAL NOTES:

None.

# **EXPECTATIONS FOR September 22, 2015:**

- Crew will continue injections at IP112.
- Larger rig will be onsite to pre-drill IP028, IP048, and IP088.
- Thompson Drilling and Weston will begin drilling Floridan well at Cabot property.

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP211	7/10/2015	
IP223	7/10/2015	
IP224	7/10/2015	
IP230	7/10/2015	
IP238	7/10/2015	
IP017	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP191	7/11/2015	
IP205	7/11/2015	
IP218	7/11/2015	
IP231	7/11/2015	
IP237	7/11/2015	
IP093	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP245	7/12/2015	
IP250	7/12/2015	
IP251	7/12/2015	
IP067	7/13/2015	
IP076	7/13/2015	
IP239	7/13/2015	
IP247	7/13/2015	
IP005	7/14/2015	
IP010	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP084	7/14/2015	
IP101	7/14/2015	
IP102	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP009	7/16/2015	
IP018	7/16/2015	
IP169	7/16/2015	
IP204	7/16/2015	
IP216	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP025	7/17/2015	

IP029	7/17/2015	Daylighting of water from nearby recovery well.
IP033	7/17/2015	Daying itting of water from ficulty recovery well.
IP226	7/20/2015	
IP228	7/20/2015	
11 220	7/20/2013	
		Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
IP014	7/21/2015	add to the proximity of the point to the interceptor trenen.
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP225	7/21/2015	Significant daying name decarted at this point around the roasi
IP249	7/21/2015	
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	ivininiai aayngittiig aroana roas.
IP023	7/22/2015	
IP037	7/22/2015	
IP190	7/22/2015	
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP045	7/24/2015	Some daylighting around rods.
IP053	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	222 22.1.00 2.02
IP052	7/27/2015	
IP060	7/27/2015	
IP145	7/27/2015	
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP242	7/27/2015	
IP059	7/28/2015	
IP068	7/28/2015	
IP069	7/28/2015	
IP075	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP160	7/28/2015	
IP031	7/29/2015	
IP044	7/29/2015	
IP046	7/29/2015	Daylighting around rods.
IP061	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
IP176	7/29/2015	
IP008	7/30/2015	
		A second point for IP012 was added to injection points since IP012 was
IP012	7/30/2015	offset a large distance from its original location
IP024	7/30/2015	
IP086	7/30/2015	
IP118	7/30/2015	
IP153	7/30/2015	
IP047	7/31/2015	
IP136	7/31/2015	
IP022	8/3/2015	
IP066	8/3/2015	
IP083	8/3/2015	Daylighting around rods.
IP087	8/3/2015	

IDOOC	0/2/2015	
IP096	8/3/2015	
IP113	8/3/2015	
IP027	8/4/2015	
IP051	8/4/2015	
IP080	8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP040	8/5/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP081	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP126	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP091	8/7/2015	
IP098	8/7/2015	
IP107	8/10/2015	
IP124	8/10/2015	
IP099	8/11/2015	
IP133	8/11/2015	
IP142	8/11/2015	
IP182	8/11/2015	
IP203	8/11/2015	
IP039	8/12/2015	
IP071	8/12/2015	
IP082	8/12/2015	
IP106	8/12/2015	Daylighting around rods.
IP215	8/12/2015	
IP063	8/13/2015	
IP055	8/14/2015	
IP062	8/14/2015	
IP135	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP034	8/18/2015	
IP065	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP144	8/18/2015	
IP246	8/18/2015	
IP064	8/19/2015	
IP244	8/19/2015	
IP057	8/20/2015	
IP079	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP152	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
	•	

10074	0/24/2015	
IP074	8/21/2015	
IP141	8/21/2015	
IP150	8/24/2015	
IP214	8/24/2015	
IP243	8/24/2015	
IP070	8/25/2015	
IP125	8/25/2015	
IP132	8/25/2015	
IP134	8/25/2015	
IP143	8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP139	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP114	8/27/2015	
IP122	8/27/2015	
IP193	8/28/2015	
IP157	8/31/2015	
IP171	8/31/2015	
IP178	8/31/2015	
IP185	8/31/2015	
IP026	9/1/2015	
IP138	9/1/2015	
IP146	9/1/2015	
IP147	9/1/2015	
IP162	9/1/2015	
IP252	9/1/2015	
IP020	9/2/2015	
IP036	9/2/2015	
IP041	9/2/2015	
IP151	9/2/2015	
IP163	9/2/2015	
IP177	9/2/2015	
IP207	9/2/2015	
IP219	9/2/2015	
IP158	9/3/2015	
IP192	9/3/2015	
IP206	9/3/2015	
IP212	9/3/2015	
IP217	9/3/2015	
IP227	9/3/2015	
IP170	9/4/2015	
IP184	9/4/2015	
IP188	9/4/2015	
IP199	9/4/2015	
IP200	9/8/2015	
IP208	9/8/2015	
IP213	9/8/2015	Daylighting approximately 5' from rods.
IP221	9/8/2015	

IP248   9/8/2015		1	
IPOS4			
P123			
P187		9/9/2015	
IP006   9/10/2015	IP123	9/9/2015	
IPOS6	IP187	9/9/2015	
IP077	IP006	9/10/2015	
IP149	IP056	9/10/2015	
IP179	IP077	9/10/2015	
IP197	IP149	9/10/2015	Minimal daylighting.
TIP 380N/180E   9/10/2015     IP165   9/11/2015     IP220   9/11/2015     IP220   9/11/2015     IP233   9/11/2015     IP140   9/14/2015     IP140   9/15/2015     IP140   9/15/2015     IP160   9/15/2015     IP110   9/15/2015     IP166   9/15/2015     IP166   9/15/2015     IP166   9/15/2015     IP172   9/16/2015     IP172   9/16/2015     IP172   9/16/2015     IP186   9/16/2015     IP186   9/16/2015     IP186   9/16/2015     IP186   9/16/2015     IP186   9/17/2015     IP186   9/17/2015     IP186   9/17/2015     IP187   9/17/2015     IP188   9/17/2015     IP189   9/17/2015     IP189   9/17/2015     IP167   9/17/2015     IP167   9/17/2015     IP180   9/17/2015     IP180   9/17/2015     IP180   9/17/2015     IP181   9/17/2015     IP194   9/17/2015     IP195   9/17/2015     IP195   9/17/2015     IP196   9/17/2015     IP197   9/17/2015     IP190   9/18/2015     IP100   9/18/2015     IP100   9/18/2015     IP101   9/21/2015     IP101   9/21/2015     IP101   9/21/2015     IP101   9/21/2015     IP101   9/21/2015     IP101   9/21	IP179	9/10/2015	
P165   9/11/2015	IP197	9/10/2015	
IP220   9/11/2015     IP253   9/11/2015     IP140   9/14/2015     IP042   9/15/2015     IP042   9/15/2015     IP050   9/15/2015     IP050   9/15/2015     IP058   9/15/2015     IP110   9/15/2015     IP110   9/15/2015     IP155   9/15/2015     IP166   9/15/2015     IP166   9/15/2015     IP166   9/15/2015     IP166   9/15/2015     IP166   9/16/2015     IP166   9/16/2015     IP172   9/16/2015     IP186   9/16/2015     IP186   9/16/2015     IP186   9/16/2015     IP186   9/16/2015     IP186   9/16/2015     IP186   9/17/2015     IP189   9/17/2015     IP16   9/17/2015     IP16   9/17/2015     IP17   9/17/2015     IP18   9/17/2015     IP19   9/17/2015     IP10   9/17/2015     IP10   9/17/2015     IP10   9/17/2015     IP10   9/18/2015     IP1	TIP 380N/180E	9/10/2015	
IP253   9/11/2015     IP140   9/14/2015     IP042   9/15/2015     IP050   9/15/2015     IP050   9/15/2015     IP050   9/15/2015     IP058   9/15/2015     IP155   9/15/2015     IP155   9/15/2015     IP155   9/15/2015     IP166   9/15/2015     IP166   9/15/2015     IP166   9/15/2015     IP166   9/15/2015     IP166   9/15/2015     IP166   9/15/2015     IP170   9/16/2015     IP170   9/17/2015     IP170   9/17/2015     IP170   9/17/2015     IP170   9/17/2015     IP170   9/17/2015     IP180   9/17/2015     IP181   9/17/2015     IP181   9/17/2015     IP181   9/17/2015     IP181   9/17/2015     IP181   9/17/2015     IP196   9/17/2015     IP196   9/17/2015     IP196   9/17/2015     IP196   9/17/2015     IP1970   9/18/2015     IP110   9/18/2015     IP111   9/18/2015     IP120   9/18/2015     IP120   9/18/2015     IP121   9/18/2015     IP120     IP120     IP120     IP120     IP120     IP12	IP165	9/11/2015	
IP140	IP220	9/11/2015	
IP042	IP253	9/11/2015	
IPO50	IP140	9/14/2015	
IP058	IP042	9/15/2015	
P110	IP050	9/15/2015	
P155   9/15/2015   Ground bulging approximately 5' from rods, no daylighting.   P166   9/15/2015   Ground bulging approximately 5' from rods, no daylighting.   P156   9/16/2015   P156   9/16/2015   P172   9/16/2015   P172   9/16/2015   P186   9/16/2015   P186   9/16/2015   P186   9/16/2015   P180   9/17/2015   P19108   9/17/2015   P19108   9/17/2015   P19108   9/17/2015   P117   9/17/2015   P117   9/17/2015   P117   9/17/2015   P117   9/17/2015   P117   9/17/2015   P1180   9/17/2015   P180   9/17/2015   P180   9/17/2015   P181   9/17/2015   P181   9/17/2015   P1994   9/17/2015   P1995   9/17/2015   P1996   9/17/2015   P1996   9/17/2015   P1900   9/17/2015   P1910   9/17/2015   P1910   9/17/2015   P1922   9/17/2015   P1922   9/17/2015   P1922   9/17/2015   P1923   9/18/2015   P1910   P1910   P1910   P1910   P1910   P1910   P1910   P1910   P1910   P1910	IP058	9/15/2015	
IP166   9/15/2015   Ground bulging approximately 5' from rods, no daylighting.   IP209   9/15/2015   Ground bulging around rods, no daylighting.   IP156   9/16/2015   IP172   9/16/2015   IP172   9/16/2015   IP186   9/16/2015   IP201   9/16/2015   IP201   9/16/2015   IP201   9/16/2015   IP201   9/17/2015   IP108   9/17/2015   IP169   9/17/2015   IP177   9/17/2015   IP177   9/17/2015   IP177   9/17/2015   IP180   9/17/2015   IP180   9/17/2015   IP181   9/17/2015   IP181   9/17/2015   IP181   9/17/2015   IP181   9/17/2015   IP194   9/17/2015   IP195   9/17/2015   IP196   9/17/2015   IP196   9/17/2015   IP196   9/17/2015   IP202   9/17/2015   IP202   9/17/2015   IP202   9/17/2015   IP202   9/17/2015   IP203   9/18/2015   IP103   9/18/2015   IP103   9/18/2015   IP103   9/18/2015   IP103   9/18/2015   IP104   9/18/2015   IP104   9/18/2015   IP107   IP107	IP110	9/15/2015	
IP209   9/15/2015   Ground bulging around rods, no daylighting.     IP156   9/16/2015       IP172   9/16/2015       IP186   9/16/2015       IP201   9/16/2015       IP201   9/16/2015       IP201   9/16/2015       IP094   9/17/2015       IP108   9/17/2015       IP116   9/17/2015       IP117   9/17/2015       IP117   9/17/2015       IP180   9/17/2015       IP180   9/17/2015       IP181   9/17/2015       IP181   9/17/2015       IP194   9/17/2015       IP195   9/17/2015       IP196   9/17/2015       IP196   9/17/2015       IP196   9/17/2015       IP202   9/17/2015       IP202   9/17/2015       IP202   9/17/2015       IP203   9/18/2015       IP103   9/18/2015       IP103   9/18/2015       IP111   9/18/2015       IP111   9/18/2015       IP121   9/18/2015       IP121   9/18/2015       IP173   9/18/2015       IP104   9/21/2015       IP109	IP155	9/15/2015	
IP156	IP166	9/15/2015	Ground bulging approximately 5' from rods, no daylighting.
IP172	IP209	9/15/2015	Ground bulging around rods, no daylighting.
IP186	IP156	9/16/2015	
IP201   9/16/2015	IP172	9/16/2015	
IP094   9/17/2015	IP186	9/16/2015	
IP108   9/17/2015	IP201	9/16/2015	
IP116	IP094	9/17/2015	
IP117   9/17/2015	IP108	9/17/2015	
IP127   9/17/2015   Daylighting issues.     IP180   9/17/2015   Daylighting issues.     IP181   9/17/2015   Daylighting issues.     IP194   9/17/2015   Daylighting issues.     IP195   9/17/2015   Daylighting issues.     IP196   9/17/2015   Daylighting issues.     IP202   9/17/2015   Daylighting issues.     IP210   9/17/2015   Daylighting issues.     IP103   9/18/2015   Daylighting issues.     IP104   9/21/2015   Daylighting issues.     IP109   9/18/2015   Daylighting issues.     IP109   9/21/2015   Daylighting issues.     IP109   P109   P109   P109   P109   P109   P109   P109   P109	IP116	9/17/2015	
IP167   9/17/2015   Daylighting issues.     IP180   9/17/2015     IP181   9/17/2015     IP194   9/17/2015     IP195   9/17/2015     IP196   9/17/2015     IP202   9/17/2015     IP210   9/17/2015     IP222   9/17/2015     IP222   9/17/2015     IP095   9/18/2015     IP103   9/18/2015     IP111   9/18/2015     IP120   9/18/2015     IP121   9/18/2015     IP121   9/18/2015     IP121   9/18/2015     IP173   9/18/2015     IP174   9/21/2015     IP175   9/21/2015     IP177   9/21/2015     IP199   9/21/2015     IP190   IP190   9/21/2015     IP190   9/21/2015     IP190   IP190   IP190   IP190   IP190   IP190   IP190   IP190     IP190	IP117	9/17/2015	
IP180	IP127	9/17/2015	
IP181	IP167	9/17/2015	Daylighting issues.
IP194	IP180	9/17/2015	
IP195   9/17/2015	IP181	9/17/2015	
IP196   9/17/2015	IP194	9/17/2015	
IP202   9/17/2015	IP195	9/17/2015	
IP210	IP196	9/17/2015	
IP222   9/17/2015	IP202	9/17/2015	
IP095     9/18/2015       IP103     9/18/2015       IP111     9/18/2015       IP120     9/18/2015       IP121     9/18/2015       IP173     9/18/2015       IP104     9/21/2015       IP129     9/21/2015	IP210	9/17/2015	
IP103   9/18/2015	IP222	9/17/2015	
IP111     9/18/2015       IP120     9/18/2015       IP121     9/18/2015       IP173     9/18/2015       IP104     9/21/2015       IP129     9/21/2015	IP095	9/18/2015	
IP120     9/18/2015       IP121     9/18/2015       IP173     9/18/2015       IP104     9/21/2015       IP129     9/21/2015	IP103	9/18/2015	
IP121     9/18/2015       IP173     9/18/2015     Daylighting issues.       IP104     9/21/2015       IP129     9/21/2015	IP111	9/18/2015	
IP173     9/18/2015     Daylighting issues.       IP104     9/21/2015       IP129     9/21/2015	IP120	9/18/2015	
IP104 9/21/2015 IP129 9/21/2015	IP121	9/18/2015	
IP129 9/21/2015	IP173	9/18/2015	Daylighting issues.
	IP104	9/21/2015	
IP130 9/21/2015	IP129		
l ' ' L	IP130	9/21/2015	

	DATE	22 Se	<u>ptembe</u>	r 201	5			
	DAY	S	М	Т	W	тн	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Ove	rcast	Rain	Fog/	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50	-70	70-85	85-	-up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hi	gh	Repo	ort No.	50
CONTRACT: EP-S4-08-03	- HUMIDITY	Dry	Mod.	Hur	nid			

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area and Floridan Well Installation.

#### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP112, IP088, IP048, and IP028.
- Total of injections points completed to date: 254 of 254.
- · Completed all injections points today.
- Weston has begun Floridan well installation.

## **PERSONNEL ON-SITE:**

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech J. D. Spalding
- Weston Mark Taylor

## **WORK PERFORMED:**

Site Weather – Warm and humid, 85°F, partly cloudy.

- 0730 Crews pulling rods and abandoning points and setting up to continue injections at IP112.
- 0915 Crews continue to abandon points.
- 0930 Thompson Well and Pump, Inc. (Thompson Drilling) and Weston personnel onsite at Cabot property. Setting up mud containment casing.
- 1100 Pushing rods down at IP112, predrilling at IP088. Thompson Drilling continues to setup equipment and rig.
- 1200 Injections continue at IP112. Predrilling complete at IP088, ongoing at IP048. Pushing rods down at IP088.
- 1330 Injections complete at IP112, injections continue at IP088. Predrilling complete at IP048, ongoing at IP028.
- 1430 Injections complete at IP088, injections ongoing at IP048. Predrilling complete at IP028.
- 1500 Thompson Drilling continues to setup rig. No drilling will take place today.
- 1545 IP048 complete, injections ongoing at IP028.
- 1645 Injections complete at IP028, completing all predetermined injection points. However, it has been

	DATE	22 September 2015						
	DAY	S	М	Т	W	ТН	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Ove	rcast	Rain	Fog/	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50	-70	70-85	85-	-up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hi	gh	Repo	ort No.	50
CONTRACT: EP-S4-08-03	- HUMIDITY	Dry	Mod.	Hur	nid			

determined that there exists a surplus of reagent (~4,500 gallons). This surplus material will begin to be injected tomorrow; points have not been determined yet where injections will take place.

## **QUALITY CONTROL ACTIVITIES:**

• J.M. Waller and Tetra Tech oversight personnel onsite.

# **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

All activities performed in Level D.

# PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

None.

# **SPECIAL NOTES:**

• All predetermined injection points have been completed.

# **EXPECTATIONS FOR September 23, 2015:**

- IET crews will begin injections of surplus reagent.
- Weston and Thompson Drilling will begin installation of Floridan well.

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP211	7/10/2015	
IP223	7/10/2015	
IP224	7/10/2015	
IP230	7/10/2015	
IP238	7/10/2015	
IP017	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP191	7/11/2015	
IP205	7/11/2015	
IP218	7/11/2015	
IP231	7/11/2015	
IP237	7/11/2015	
IP093	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP245	7/12/2015	
IP250	7/12/2015	
IP251	7/12/2015	
IP067	7/13/2015	
IP076	7/13/2015	
IP239	7/13/2015	
IP247	7/13/2015	
IP005	7/14/2015	
IP010	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP084	7/14/2015	
IP101	7/14/2015	
IP102	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP009	7/16/2015	
IP018	7/16/2015	
IP169	7/16/2015	
IP204	7/16/2015	
IP216	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP025	7/17/2015	

IP029	7/17/2015	Daylighting of water from nearby recovery well.
IP033	7/17/2015	buying itting of water from ficulty recovery well.
IP226	7/20/2015	
IP228	7/20/2015	
	772072013	
		Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
IP014	7/21/2015	and to the promisity or the position and medicapter transfer
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP225	7/21/2015	
IP249	7/21/2015	
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	
IP023	7/22/2015	
IP037	7/22/2015	
IP190	7/22/2015	
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP045	7/24/2015	Some daylighting around rods.
IP053	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	,
IP052	7/27/2015	
IP060	7/27/2015	
IP145	7/27/2015	
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP242	7/27/2015	
IP059	7/28/2015	
IP068	7/28/2015	
IP069	7/28/2015	
IP075	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP160	7/28/2015	
IP031	7/29/2015	
IP044	7/29/2015	
IP046	7/29/2015	Daylighting around rods.
IP061	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
IP176	7/29/2015	
IP008	7/30/2015	
		A second point for IP012 was added to injection points since IP012 was
IP012	7/30/2015	offset a large distance from its original location
IP024	7/30/2015	-
IP086	7/30/2015	
IP118	7/30/2015	
IP153	7/30/2015	
IP047	7/31/2015	
IP136	7/31/2015	
IP022	8/3/2015	
IP066	8/3/2015	
IP083	8/3/2015	Daylighting around rods.
IP087	8/3/2015	

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IP096	8/3/2015	
IP113	8/3/2015	
IP027	8/4/2015	
IP051	8/4/2015	
IP080	8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP040	8/5/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP081	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP126	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP091	8/7/2015	
IP098	8/7/2015	
IP107	8/10/2015	
IP124	8/10/2015	
IP099	8/11/2015	
IP133	8/11/2015	
IP142	8/11/2015	
IP182	8/11/2015	
IP203	8/11/2015	
IP039	8/12/2015	
IP071	8/12/2015	
IP082	8/12/2015	
IP106	8/12/2015	Daylighting around rods.
IP215	8/12/2015	
IP063	8/13/2015	
IP055	8/14/2015	
IP062	8/14/2015	
IP135	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP034	8/18/2015	
IP065	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP144	8/18/2015	
IP246	8/18/2015	
IP064	8/19/2015	
IP244	8/19/2015	
IP057	8/20/2015	
IP079	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP152	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
1	1 ' '	1 , 5 5

10074	0/21/2015	1
IP074	8/21/2015	
IP141	8/21/2015	
IP150	8/24/2015	
IP214	8/24/2015	
IP243	8/24/2015	
IP070	8/25/2015	
IP125	8/25/2015	
IP132	8/25/2015	
IP134	8/25/2015	
IP143	8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP139	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP114	8/27/2015	
IP122	8/27/2015	
IP193	8/28/2015	
IP157	8/31/2015	
IP171	8/31/2015	
IP178	8/31/2015	
IP185	8/31/2015	
IP026	9/1/2015	
IP138	9/1/2015	
IP146	9/1/2015	
IP147	9/1/2015	
IP162	9/1/2015	
IP252	9/1/2015	
IP020	9/2/2015	
IP036	9/2/2015	
IP041	9/2/2015	
IP151	9/2/2015	
IP163	9/2/2015	
IP177	9/2/2015	
IP207	9/2/2015	
IP219	9/2/2015	
IP158	9/3/2015	
IP192	9/3/2015	
IP206	9/3/2015	
IP212	9/3/2015	
IP217	9/3/2015	
IP227	9/3/2015	
IP170	9/4/2015	
IP184	9/4/2015	
IP188	9/4/2015	
IP199	9/4/2015	
IP200	9/8/2015	
IP208	9/8/2015	
IP213	9/8/2015	Daylighting approximately 5' from rods.
IP221	9/8/2015	, , , , , , , , , , , , , , , , , , , ,
	-,-,-520	I.

IP248	9/8/2015	
IP038	9/9/2015	
IP054 IP123	9/9/2015	
	9/9/2015	
IP187	9/9/2015	
IP006	9/10/2015	
IP056	9/10/2015	
IP077	9/10/2015	
IP149	9/10/2015	Minimal daylighting.
IP179	9/10/2015	
IP197	9/10/2015	
TIP 380N/180E	9/10/2015	
IP165	9/11/2015	
IP220	9/11/2015	
IP253	9/11/2015	
IP140	9/14/2015	
IP042	9/15/2015	
IP050	9/15/2015	
IP058	9/15/2015	
IP110	9/15/2015	
IP155	9/15/2015	
IP166	9/15/2015	Ground bulging approximately 5' from rods, no daylighting.
IP209	9/15/2015	Ground bulging around rods, no daylighting.
IP156	9/16/2015	
IP172	9/16/2015	
IP186	9/16/2015	
IP201	9/16/2015	
IP094	9/17/2015	
IP108	9/17/2015	
IP116	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP117	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP127	9/17/2015	
IP167	9/17/2015	Daylighting issues.
IP180	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP181	9/17/2015	
IP194	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP195	9/17/2015	
IP196	9/17/2015	
IP202	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
	·	
IP210	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP222	9/17/2015	Deemed complete by PMs due to exhaustive effort to complete all intervals.
IP095	9/18/2015	Daylighting around rods.
IP103	9/18/2015	

IP120	9/18/2015	
IP121	9/18/2015	
IP173	9/18/2015	Daylighting issues.
IP104	9/21/2015	Daylighting issues.
IP129	9/21/2015	
IP130	9/21/2015	
IP028	9/22/2015	
IP048	9/22/2015	
IP088	9/22/2015	
IP112	9/22/2015	Daylighting approximately 10' from rods.

	DATE	23 Se	ptembe	r 2015	5			
	DAY	S	М	Т	W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Over	cast	Rain	Fog/	Haze
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-	70	70-85	85-	-up
ISGS Injections Former Process Area	WIND	Still	Mod.	Hi	gh	Repo	ort No.	51
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hun	nid			

#### TASK:

EPA oversight of Cabot-Koppers ISGS Full Scale Implementation at Former Process Area and Floridan Well Installation at Cabot Property

#### **DAY-SPECIFIC TASK:**

- Injection points completed today: IP257, IP259, IP259, IP260, IP261, IP262, IP263, IP266, IP267, IP268, and IP269.
- Total of injections points completed to date: 269 of 269.
- All injection points completed.
- Thompson Drilling continues to mobilize to Cabot property.

## **PERSONNEL ON-SITE:**

- J.M. Waller Joshua Hayes
- Innovative Environmental Technologies, IET
- Tetra Tech J. D. Spalding
- Weston Mark Taylor
- Thompson Drilling

#### WORK PERFORMED:

Site Weather – Warm, 85°F, partly cloudy.

- 0700 Crews have their morning meeting to discuss the addition of 15 new points, IP255 IP269. The additional points were added to accommodate the injection of a surplus of ~4,000 gallons of reagent. Crews setting up to begin injections.
- 0730 Thompson Drilling crew arrive onsite at the Cabot property. Weston personnel state that day will again be a day of setting up equipment and rig.
- 0745 IET crews abandoning points while Tetra Tech personnel layout additional injection points.
- 0830 Point abandonment complete. IET crews pushing rods down at IP261 and IP266.
- 0900 Injections continue at IP261 and IP266.
- 0930 Thompson Drilling continues to setup rig to begin drilling tomorrow. Injections continue at IP261, IP266 complete. Pushing rods down at IP260 and IP258.
- 1100 IP260 and IP261 complete, refusal encountered at IP264, IP265, IP255, and IP256. The points were refusal was encountered will be deleted / deemed complete.

	DATE		23 September 2015						
	DAY	S	М	Т	W	ТН	F	S	
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Over	cast	Rain	Fog/l	Haze	
PROJECT: Cabot-Koppers Task Order 35	<del>_</del>			50-	·70	70-85	85-	up	
ISGS Injections Former Process Area	WIND	Still	Mod.	Hiç	gh	Repo	ort No.	51	
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hun	nid				

- 1115 IP268 and IP269 completed injections ongoing at IP259. Crews moving to IP262 and IP263 next.
- 1200 Injections complete at IP259, injections ongoing at IP257. Pushing down rods at IP253.
- 1300 Thompson Drilling continues to setup rig and prepare casings. Injections continue at IP263 and IP257.
- 1315 IP257 complete, crew abandoning points and then will move to IP267.
- 1330 IP263 complete, crew moving to IP262.
- 1430 IP267 completed, injections continue at IP262.
- 1500 IP262 completed, all points complete. Crews will begin to demobilize. Crews will abandon remaining points tomorrow and continue to demobilize. Thompson Drilling and Weston personnel have left the site.

## **QUALITY CONTROL ACTIVITIES:**

• J.M. Waller and Tetra Tech oversight personnel onsite.

#### **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

All activities performed in Level D.

## PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

None.

## **SPECIAL NOTES:**

- All points completed.
- · IET crews have begun demobilizing.

# **EXPECTATIONS FOR September 24, 2015:**

- IET crews will abandon remaining points and begin demobilization.
- Thompson Drilling and Weston will begin drilling Floridan well at Cabot property.

Wells Completed	Date Completed	Notes
IP003	7/9/2015	
IP229	7/9/2015	
IP007	7/10/2015	
IP011	7/10/2015	
IP013	7/10/2015	
IP211	7/10/2015	
IP223	7/10/2015	
IP224	7/10/2015	
IP230	7/10/2015	
IP238	7/10/2015	
IP017	7/11/2015	
IP021	7/11/2015	
IP043	7/11/2015	
IP161	7/11/2015	
IP191	7/11/2015	
IP205	7/11/2015	
IP218	7/11/2015	
IP231	7/11/2015	
IP237	7/11/2015	
IP093	7/12/2015	
IP128	7/12/2015	
IP236	7/12/2015	
IP245	7/12/2015	
IP250	7/12/2015	
IP251	7/12/2015	
IP067	7/13/2015	
IP076	7/13/2015	
IP239	7/13/2015	
IP247	7/13/2015	
IP005	7/14/2015	
IP010	7/14/2015	
IP019	7/14/2015	Minimal daylighting around rods.
IP084	7/14/2015	
IP101	7/14/2015	
IP102	7/14/2015	
IP119	7/14/2015	
IP137	7/14/2015	
IP002	7/15/2015	
IP154	7/15/2015	
IP004	7/16/2015	
IP009	7/16/2015	
IP018	7/16/2015	
IP169	7/16/2015	
IP204	7/16/2015	
IP216	7/16/2015	
IP232	7/16/2015	
IP233	7/16/2015	
IP234	7/16/2015	
IP235	7/16/2015	
IP025	7/17/2015	

IP029	7/17/2015	Daylighting of water from nearby recovery well.
IP033	7/17/2015	Daying itting of water from ficulty recovery well.
IP226	7/20/2015	
IP228	7/20/2015	
11 220	7/20/2013	
		Only three intervals completed, remaining intervals will not be completed
IP001	7/21/2015	due to the proximity of the point to the interceptor trench.
IP014	7/21/2015	add to the proximity of the point to the interceptor trenen.
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP225	7/21/2015	Significant daying name decarted at this point around the roasi
IP249	7/21/2015	
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	ivininiai aayngittiig aroana roas.
IP023	7/22/2015	
IP037	7/22/2015	
IP190	7/22/2015	
IP032	7/23/2015	Daylighting around rods at multiple intervals.
IP045	7/24/2015	Some daylighting around rods.
IP053	7/24/2015	Some daylighting around rods.
IP183	7/24/2015	222 22.1.00 2.02
IP052	7/27/2015	
IP060	7/27/2015	
IP145	7/27/2015	
IP168	7/27/2015	Daylighting around rods at multiple intervals.
IP242	7/27/2015	
IP059	7/28/2015	
IP068	7/28/2015	
IP069	7/28/2015	
IP075	7/28/2015	
IP085	7/28/2015	
IP092	7/28/2015	
IP160	7/28/2015	
IP031	7/29/2015	
IP044	7/29/2015	
IP046	7/29/2015	Daylighting around rods.
IP061	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
IP176	7/29/2015	
IP008	7/30/2015	
		A second point for IP012 was added to injection points since IP012 was
IP012	7/30/2015	offset a large distance from its original location
IP024	7/30/2015	
IP086	7/30/2015	
IP118	7/30/2015	
IP153	7/30/2015	
IP047	7/31/2015	
IP136	7/31/2015	
IP022	8/3/2015	
IP066	8/3/2015	
IP083	8/3/2015	Daylighting around rods.
IP087	8/3/2015	

IDOOC	0/2/2015	
IP096	8/3/2015	
IP113	8/3/2015	
IP027	8/4/2015	
IP051	8/4/2015	
IP080	8/4/2015	
IP240	8/4/2015	
IP241	8/4/2015	
IP040	8/5/2015	
IP115	8/5/2015	
IP175	8/5/2015	
IP072	8/6/2015	
IP081	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP126	8/6/2015	
IP159	8/6/2015	Minimal daylighting around rods.
IP091	8/7/2015	
IP098	8/7/2015	
IP107	8/10/2015	
IP124	8/10/2015	
IP099	8/11/2015	
IP133	8/11/2015	
IP142	8/11/2015	
IP182	8/11/2015	
IP203	8/11/2015	
IP039	8/12/2015	
IP071	8/12/2015	
IP082	8/12/2015	
IP106	8/12/2015	Daylighting around rods.
IP215	8/12/2015	
IP063	8/13/2015	
IP055	8/14/2015	
IP062	8/14/2015	
IP135	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP034	8/18/2015	
IP065	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP144	8/18/2015	
IP246	8/18/2015	
IP064	8/19/2015	
IP244	8/19/2015	
IP057	8/20/2015	
IP079	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP152	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP189	8/20/2015	Daylighting around rods.
	•	

10074	0/24/2015	
IP074	8/21/2015	
IP141	8/21/2015	
IP150	8/24/2015	
IP214	8/24/2015	
IP243	8/24/2015	
IP070	8/25/2015	
IP125	8/25/2015	
IP132	8/25/2015	
IP134	8/25/2015	
IP143	8/25/2015	
IP073	8/26/2015	
IP090	8/26/2015	
IP131	8/26/2015	
IP139	8/26/2015	
IP148	8/26/2015	
IP164	8/26/2015	
IP114	8/27/2015	
IP122	8/27/2015	
IP193	8/28/2015	
IP157	8/31/2015	
IP171	8/31/2015	
IP178	8/31/2015	
IP185	8/31/2015	
IP026	9/1/2015	
IP138	9/1/2015	
IP146	9/1/2015	
IP147	9/1/2015	
IP162	9/1/2015	
IP252	9/1/2015	
IP020	9/2/2015	
IP036	9/2/2015	
IP041	9/2/2015	
IP151	9/2/2015	
IP163	9/2/2015	
IP177	9/2/2015	
IP207	9/2/2015	
IP219	9/2/2015	
IP158	9/3/2015	
IP192	9/3/2015	
IP206	9/3/2015	
IP212	9/3/2015	
IP217	9/3/2015	
IP227	9/3/2015	
IP170	9/4/2015	
IP184	9/4/2015	
IP188	9/4/2015	
IP199	9/4/2015	
IP200	9/8/2015	
IP208	9/8/2015	
IP213	9/8/2015	Daylighting approximately 5' from rods.
IP221	9/8/2015	

IP248	0/9/2015	
	9/8/2015	
IP038	9/9/2015	
IP054	9/9/2015	
IP123	9/9/2015	
IP187	9/9/2015	
IP006	9/10/2015	
IP056	9/10/2015	
IP077	9/10/2015	
IP149	9/10/2015	Minimal daylighting.
IP179	9/10/2015	
IP197	9/10/2015	
TIP 380N/180E	9/10/2015	
IP165	9/11/2015	
IP220	9/11/2015	
IP253	9/11/2015	
IP140	9/14/2015	
IP042	9/15/2015	
IP050	9/15/2015	
IP058	9/15/2015	
IP110	9/15/2015	
IP155	9/15/2015	
IP166	9/15/2015	Ground bulging approximately 5' from rods, no daylighting.
IP209	9/15/2015	Ground bulging around rods, no daylighting.
IP156	9/16/2015	
IP172	9/16/2015	
IP186	9/16/2015	
IP201	9/16/2015	
IP094	9/17/2015	
IP108	9/17/2015	
IP116	9/17/2015	
IP117	9/17/2015	
IP127	9/17/2015	
IP167	9/17/2015	Daylighting issues.
IP180	9/17/2015	, , ,
IP181	9/17/2015	
IP194	9/17/2015	
IP195	9/17/2015	
IP196	9/17/2015	
IP202	9/17/2015	
IP210	9/17/2015	
IP222	9/17/2015	
IP095	9/18/2015	
IP103	9/18/2015	
IP111	9/18/2015	
IP120	9/18/2015	
IP121	9/18/2015	
IP173	9/18/2015	Daylighting issues
IP173	9/18/2015	Daylighting issues.
IP104 IP129		
	9/21/2015	
IP130	9/21/2015	
IP112	9/22/2015	

IP088	9/22/2015	
IP048	9/22/2015	
IP028	9/22/2015	
IP257	9/23/2015	Additional point added.
IP259	9/23/2015	Additional point added.
IP260	9/23/2015	Additional point added.
IP261	9/23/2015	Additional point added.
IP262	9/23/2015	Additional point added.
IP263	9/23/2015	Additional point added.
IP266	9/23/2015	Additional point added.
IP267	9/23/2015	Additional point added.
IP268	9/23/2015	Additional point added.
IP269	9/23/2015	Additional point added.

	DATE	29 September 2015						
	DAY	S	М	T	W	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overcast		Rain	Fog/Haze	
PROJECT: Cabot-Koppers Task Order 35	_		32-50	50-70		70-85	85-up	
Cutoff Wall Borings and Well Installation	WIND	Still	Mod.	High		Rep	ort No	. 1
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hui	mid			

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DATE

#### TASK:

EPA oversight of Cabot-Koppers Cutoff Wall Borings and Floridan Well Installation

#### **DAY-SPECIFIC TASK:**

- Ardaman Drilling has mobilized to the site.
- Completed first boring at CB-12.
- Thompson Drilling continues to setup rig to begin drilling at Floridan well.

#### PERSONNEL ON-SITE:

- J.M. Waller Joshua Hayes
- Ardaman Drilling
- Tetra Tech Jim Toth
- Weston Mark Taylor
- Thompson Drilling
- John Herbert

## WORK PERFORMED:

Site Weather - Warm, 85°F, overcast.

- 0800 Ardaman Drilling onsite, awaiting remaining crew to arrive to begin drilling.
- 0830 Thompson Drilling crew continues to setup mud recirculation system, will begin drilling tomorrow morning.
- 1000 Ardaman Drilling setting up to begin drilling at CB-12.
- 1030 Ardaman Drilling collecting split spoon samples and conducting Standard Penetration Tests (SPT) at CB-12. Samples collected continuously in first 15', then every five feet from 15' 50', again continuously from 50' 70'.
- 1045 At 30' on CB-12, clayey sand with phosphorite nodules, no odor or evidence of DNAPL.
- 1100 52' clayey sand with phosphorite, no odor, no DNAPL evidence, PID = 0.5 ppm.
- 1230 Refusal on SPT at 58' on CB-12, dolomite.
- 1245 Refusal at 62' on CB-12, encountered dolomite and chert.
- 1400 Ardaman drillers break for lunch.

	DATE	29 September 2015							
	DAY	S	М	Т	W	TH	F	S	
USEPA COR: Scott Miller	WEATHER		Partly Cloudy	Overcast		Rain	Fog/Haze		
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-70		70-85	85-up		
Cutoff Wall Borings and Well Installation	WIND	Still	Mod.	High		Report No. 1		. 1	
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hum	nid				

1530 – Ardaman drillers and geologist have reviewed split spoon samples and determined that the middle Hawthorn clay layer begins at ~56' at CB-12. Crew will abandon point. Abandonment method is grouting by pump from bottom of borehole to ground surface through drill string.

1600 – Ardaman drillers continue to abandon borehole at CB-12. No further drilling will be attempted today.

#### **QUALITY CONTROL ACTIVITIES:**

• J.M. Waller and Tetra Tech oversight personnel onsite.

# **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

All activities performed in Level D.

# PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

None.

## **SPECIAL NOTES:**

None.

# **EXPECTATIONS FOR September 30, 2015:**

- Ardaman crew will continue cutoff wall borings.
- Thompson Drilling and Weston will begin drilling Floridan well at Cabot property.

	DATE	30 September 2015						
	DAY	S	М	Т	w	TH	F	S
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overcast		Rain	Fog/Haze	
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-70		70-85 <b>85-</b> u		-up
Cutoff Wall Borings and Well Installation	WIND	Still	Mod.	High		Rep	ort No	. 2
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hur	nid			

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DATE

#### TASK:

EPA oversight of Cabot-Koppers Cutoff Wall Borings and Floridan Well Installation

#### **DAY-SPECIFIC TASK:**

- Completed CB-1 (0+00).
- Thompson Drilling began drilling at Floridan well.
- Drilling stopped at Floridan well due to drill string stabilization issues.

#### PERSONNEL ON-SITE:

- J.M. Waller Joshua Hayes
- Ardaman Drilling
- Tetra Tech Jim Toth
- Weston Mark Taylor
- Thompson Drilling
- John Herbert

#### **WORK PERFORMED:**

Site Weather – Hot and humid, 88°F, partly cloudy.

- 0800 Ardaman Drilling setting up to begin borings at CB-1 (labelled as 0+00 on Figure 6 of Tetra Tech's Pre-Design Investigation Work Plan: Design Track 2).
- 0900 Ardaman continues borings at CB-1 (0+00), no evidence of DNAPL down to 15', sandy soil.
- 0945 Thompson Drilling has begun drilling at the Floridan well. Borehole will be advanced down to 23.5', then first isolation casing will be installed. First isolation casing diameter will be 22" OD, borehole diameter will be 27.5".
- 1015 Chips of wood have clogged the recirculation pump for drilling mud, wood chips have strong smoky/turpentine odor.
- 1030 At 50' on CB-1 (0+00), no evidence of DNAPL.
- 1130 At 56' on CB-1 (0+00), no sign of middle clay yet.
- 1145 Drilling continues at Cabot Floridan well.
- 1400 Borings complete at CB-1 (0+00), middle clay encountered at 66' 71'.

	DATE	30 September 2015							
	DAY	S	М	Т	W	ТН	F	S	
USEPA COR: Scott Miller	WEATHER	Clear	Partly Cloudy	Overcast		Rain	Fog/Haze		
PROJECT: Cabot-Koppers Task Order 35	TEMPERATURE	to 32	32-50	50-70		70-85	85-up		
Cutoff Wall Borings and Well Installation	WIND	Still	Mod.	High		Report No		. 2	
CONTRACT: EP-S4-08-03	HUMIDITY	Dry	Mod.	Hun	nid				

1430 – Ardaman will not begin new borehole today. Rig at Cabot Floridan well borehole has encountered a buried wood stump at ~18'. This obstruction is causing the bit to walk and therefore the borehole will not be straight. Thompson Drilling has stopped drilling for the day and will need to retrofit their drill string with a stabilizer. Drilling will not restart until late tomorrow.

# QUALITY CONTROL ACTIVITIES:

• J.M. Waller and Tetra Tech oversight personnel onsite.

### **HEALTH AND SAFETY LEVELS AND ACTIVITIES:**

All activities performed in Level D.

## PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

• Thompson Drilling has stopped drilling due to walking of bit during drilling / a stabilizer will be retrofitted to drill string to prevent this in the future. Drilling stopped until retrofit can be made.

## **SPECIAL NOTES:**

• None.

# **EXPECTATIONS FOR October 1, 2015:**

- Ardaman crew will continue cutoff wall borings at CB-6 (20+00).
- Thompson Drilling and Weston will retrofit drill string with stabilizer.