

## DAILY QUALITY CONTROL REPORT

DATE

1 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 37	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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:

## DAILY QUALITY CONTROL REPORT

DATE

1 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 37	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid		
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- 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.

**PREPARED BY:** Joshua Hayes **REVIEWED BY:** Tim Turner

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.
IP033	7/17/2015	
IP228	7/20/2015	
IP226	7/20/2015	
IP012A	7/21/2015	See IP012B.
IP249	7/21/2015	
IP225	7/21/2015	
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed due to the proximity of the point to the interceptor trench.
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	
IP190	7/22/2015	
IP023	7/22/2015	
IP037	7/22/2015	
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	
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	
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	
IP061	7/29/2015	Daylighting around rods.
IP046	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
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	
IP012B	7/30/2015	A second point for IP012 (labelled tentatively as IP012B) was added to injection points since IP012 was offset a large distance from its original 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	
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	
IP126	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP098	8/7/2015	
IP124	8/10/2015	
IP133	8/11/2015	
IP099	8/11/2015	
IP142	8/11/2015	
IP203	8/11/2015	
IP182	8/11/2015	
IP106	8/12/2015	Daylighting around rods.
IP071	8/12/2015	
IP039	8/12/2015	
IP063	8/13/2015	
IP135	8/14/2015	
IP055	8/14/2015	
IP062	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP034	8/18/2015	
IP065	8/18/2015	
IP144	8/18/2015	
IP246	8/18/2015	
IP244	8/19/2015	
IP064	8/19/2015	Issues with nearby well daylighting water and DNAPL, no reagent daylighted.
IP057	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP079	8/20/2015	
IP189	8/20/2015	Daylighting around rods.
IP152	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP074	8/21/2015	

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	

## DAILY QUALITY CONTROL REPORT

DATE

2 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 38	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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:

## DAILY QUALITY CONTROL REPORT

DATE

2 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 38	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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- All activities performed in Level D.

**PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:**

- None.

**SPECIAL NOTES:**

- None.

**EXPECTATIONS FOR September 3, 2015:**

- Crew will continue injections at IP155.

**PREPARED BY:** Joshua Hayes **REVIEWED BY:** Tim Turner



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.
IP033	7/17/2015	
IP228	7/20/2015	
IP226	7/20/2015	
IP012A	7/21/2015	See IP012B.
IP249	7/21/2015	
IP225	7/21/2015	
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed due to the proximity of the point to the interceptor trench.
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	
IP190	7/22/2015	
IP023	7/22/2015	
IP037	7/22/2015	
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	
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	
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	
IP061	7/29/2015	Daylighting around rods.
IP046	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
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	
IP012B	7/30/2015	A second point for IP012 (labelled tentatively as IP012B) was added to injection points since IP012 was offset a large distance from its original 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	
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	
IP126	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP098	8/7/2015	
IP124	8/10/2015	
IP133	8/11/2015	
IP099	8/11/2015	
IP142	8/11/2015	
IP203	8/11/2015	
IP182	8/11/2015	
IP106	8/12/2015	Daylighting around rods.
IP071	8/12/2015	
IP039	8/12/2015	
IP063	8/13/2015	
IP135	8/14/2015	
IP055	8/14/2015	
IP062	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP034	8/18/2015	
IP065	8/18/2015	
IP144	8/18/2015	
IP246	8/18/2015	
IP244	8/19/2015	
IP064	8/19/2015	Issues with nearby well daylighting water and DNAPL, no reagent daylighted.
IP057	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP079	8/20/2015	
IP189	8/20/2015	Daylighting around rods.
IP152	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP074	8/21/2015	

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	

## DAILY QUALITY CONTROL REPORT

**DATE**

**4 September 2015**

**DAY**

S	M	T	W	TH	F	S
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**USEPA COR:** Scott Miller

**WEATHER**

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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**PROJECT:** Cabot-Koppers Task Order 35

**TEMPERATURE**

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

**WIND**

Still	Mod.	High	Report No. 39	
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**CONTRACT:** EP-S4-08-03

**HUMIDITY**

Dry	Mod.	Humid
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**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.

## DAILY QUALITY CONTROL REPORT

**DATE**

**4 September 2015**

**DAY**

S	M	T	W	TH	<b>F</b>	S
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**USEPA COR:** Scott Miller

**WEATHER**

Clear	Partly Cloudy	Overcast	<b>Rain</b>	Fog/Haze
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**PROJECT:** Cabot-Koppers Task Order 35

**TEMPERATURE**

to 32	32-50	50-70	70-85	<b>85-up</b>
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ISGS Injections Former Process Area

**WIND**

Still	<b>Mod.</b>	High	<b>Report No. 39</b>	
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**CONTRACT:** EP-S4-08-03

**HUMIDITY**

Dry	Mod.	<b>Humid</b>
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**EXPECTATIONS FOR September 8, 2015:**

- Crew will continue injections at IP196.

**PREPARED BY:** Joshua Hayes **REVIEWED BY:** Tim Turner

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.
IP033	7/17/2015	
IP228	7/20/2015	
IP226	7/20/2015	
IP012A	7/21/2015	See IP012B.
IP249	7/21/2015	
IP225	7/21/2015	
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed due to the proximity of the point to the interceptor trench.
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	
IP190	7/22/2015	
IP023	7/22/2015	
IP037	7/22/2015	
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	
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	
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	
IP061	7/29/2015	Daylighting around rods.
IP046	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
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	
IP012B	7/30/2015	A second point for IP012 (labelled tentatively as IP012B) was added to injection points since IP012 was offset a large distance from its original 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	
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	
IP126	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP098	8/7/2015	
IP124	8/10/2015	
IP133	8/11/2015	
IP099	8/11/2015	
IP142	8/11/2015	
IP203	8/11/2015	
IP182	8/11/2015	
IP106	8/12/2015	Daylighting around rods.
IP071	8/12/2015	
IP039	8/12/2015	
IP063	8/13/2015	
IP135	8/14/2015	
IP055	8/14/2015	
IP062	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP034	8/18/2015	
IP065	8/18/2015	
IP144	8/18/2015	
IP246	8/18/2015	
IP244	8/19/2015	
IP064	8/19/2015	Issues with nearby well daylighting water and DNAPL, no reagent daylighted.
IP057	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP079	8/20/2015	
IP189	8/20/2015	Daylighting around rods.
IP152	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP074	8/21/2015	

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.
IP158	9/3/2015	
IP188	9/4/2015	
IP199	9/4/2015	
IP184	9/4/2015	

## DAILY QUALITY CONTROL REPORT

DATE

8 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 40	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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 Brouman – 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 Brouman (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.

## DAILY QUALITY CONTROL REPORT

DATE

8 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 40	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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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.

**PREPARED BY: Joshua Hayes REVIEWED BY: Tim Turner**

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.
IP033	7/17/2015	
IP228	7/20/2015	
IP226	7/20/2015	
IP012A	7/21/2015	See IP012B.
IP249	7/21/2015	
IP225	7/21/2015	
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed due to the proximity of the point to the interceptor trench.
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	
IP190	7/22/2015	
IP023	7/22/2015	
IP037	7/22/2015	
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	
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	
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	
IP061	7/29/2015	Daylighting around rods.
IP046	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
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	
IP012B	7/30/2015	A second point for IP012 (labelled tentatively as IP012B) was added to injection points since IP012 was offset a large distance from its original 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	
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	
IP126	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP098	8/7/2015	
IP124	8/10/2015	
IP133	8/11/2015	
IP099	8/11/2015	
IP142	8/11/2015	
IP203	8/11/2015	
IP182	8/11/2015	
IP106	8/12/2015	Daylighting around rods.
IP071	8/12/2015	
IP039	8/12/2015	
IP063	8/13/2015	
IP135	8/14/2015	
IP055	8/14/2015	
IP062	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP034	8/18/2015	
IP065	8/18/2015	
IP144	8/18/2015	
IP246	8/18/2015	
IP244	8/19/2015	
IP064	8/19/2015	Issues with nearby well daylighting water and DNAPL, no reagent daylighted.
IP057	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP079	8/20/2015	
IP189	8/20/2015	Daylighting around rods.
IP152	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP074	8/21/2015	

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.
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	
IP221	9/8/2015	



## DAILY QUALITY CONTROL REPORT

DATE

9 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 41	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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.

## DAILY QUALITY CONTROL REPORT

DATE

9 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 41	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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**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 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

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.
IP033	7/17/2015	
IP228	7/20/2015	
IP226	7/20/2015	
IP012A	7/21/2015	See IP012B.
IP249	7/21/2015	
IP225	7/21/2015	
IP014	7/21/2015	
IP198	7/21/2015	Significant daylighting occurred at this point around the rods.
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed due to the proximity of the point to the interceptor trench.
IP015	7/22/2015	Minimal daylighting around rods.
IP016	7/22/2015	
IP190	7/22/2015	
IP023	7/22/2015	
IP037	7/22/2015	
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	
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	
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	
IP061	7/29/2015	Daylighting around rods.
IP046	7/29/2015	Daylighting around rods.
IP078	7/29/2015	
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	
IP012B	7/30/2015	A second point for IP012 (labelled tentatively as IP012B) was added to injection points since IP012 was offset a large distance from its original 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	
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	
IP126	8/6/2015	
IP089	8/6/2015	
IP109	8/6/2015	
IP098	8/7/2015	
IP124	8/10/2015	
IP133	8/11/2015	
IP099	8/11/2015	
IP142	8/11/2015	
IP203	8/11/2015	
IP182	8/11/2015	
IP106	8/12/2015	Daylighting around rods.
IP071	8/12/2015	
IP039	8/12/2015	
IP063	8/13/2015	
IP135	8/14/2015	
IP055	8/14/2015	
IP062	8/14/2015	
IP035	8/17/2015	
IP049	8/17/2015	
IP030	8/18/2015	
IP100	8/18/2015	Several incidences of daylighting around rods.
IP034	8/18/2015	
IP065	8/18/2015	
IP144	8/18/2015	
IP246	8/18/2015	
IP244	8/19/2015	
IP064	8/19/2015	Issues with nearby well daylighting water and DNAPL, no reagent daylighted.
IP057	8/20/2015	
IP174	8/20/2015	Issues with nearby well daylighting water, no reagent daylighted.
IP079	8/20/2015	
IP189	8/20/2015	Daylighting around rods.
IP152	8/20/2015	
IP097	8/20/2015	
IP105	8/20/2015	
IP074	8/21/2015	

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.
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	
IP221	9/8/2015	
IP054	9/9/2015	
IP038	9/9/2015	
IP187	9/9/2015	
IP123	9/9/2015	

## DAILY QUALITY CONTROL REPORT

DATE

11 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 43	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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.

## DAILY QUALITY CONTROL REPORT

DATE

11 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 43	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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**PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:**

- None.

**SPECIAL NOTES:**

- None.

**EXPECTATIONS FOR September 14, 2015:**

- Crew will continue injections at IP048.

**PREPARED BY: Joshua Hayes** **REVIEWED BY: Tim Turner**



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	
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed 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	
IP012	7/30/2015	A second point for IP012 was added to injection points since IP012 was 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	
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	
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	

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	

## DAILY QUALITY CONTROL REPORT

DATE

14 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 44	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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.

## DAILY QUALITY CONTROL REPORT

DATE

14 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 44	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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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.

**PREPARED BY: Joshua Hayes REVIEWED BY: Tim Turner**

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	
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed 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	
IP012	7/30/2015	A second point for IP012 was added to injection points since IP012 was 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	
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	
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	

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	

## DAILY QUALITY CONTROL REPORT

DATE

15 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 45	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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.

## DAILY QUALITY CONTROL REPORT

DATE

15 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 45	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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**SPECIAL NOTES:**

- None.

**EXPECTATIONS FOR September 16, 2015:**

- Crew will continue injections at partially completed points.

**PREPARED BY: Joshua Hayes** **REVIEWED BY: Tim Turner**

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	
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed 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	
IP012	7/30/2015	A second point for IP012 was added to injection points since IP012 was 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	
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	
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	

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	
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.

## DAILY QUALITY CONTROL REPORT

DATE

16 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 46	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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.

## DAILY QUALITY CONTROL REPORT

DATE

16 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 46	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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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 ACTION TAKEN:**

- None.

**SPECIAL NOTES:**

- None.

**EXPECTATIONS FOR September 17, 2015:**

- Crew will continue injections at partially completed points.

**PREPARED BY:** Joshua Hayes **REVIEWED BY:** Tim Turner

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	
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	
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed 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.
IP031	7/29/2015	
IP078	7/29/2015	
IP176	7/29/2015	
IP008	7/30/2015	
IP012	7/30/2015	A second point for IP012 was added to injection points since IP012 was 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	
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	



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	
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	
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	

## DAILY QUALITY CONTROL REPORT

DATE

17 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 47	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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

## DAILY QUALITY CONTROL REPORT

DATE

17 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 47	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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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

# DAILY QUALITY CONTROL REPORT

DATE

17 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 47	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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this point they will be declared completed.

## EXPECTATIONS FOR September 18, 2015:

- Crew will continue injections at IP095 and IP173.

**PREPARED BY:** Joshua Hayes **REVIEWED BY:** Tim Turner

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	
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	
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed 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	
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	
IP012	7/30/2015	A second point for IP012 was added to injection points since IP012 was 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	
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	
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	



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	
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	
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.

## DAILY QUALITY CONTROL REPORT

DATE

18 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 48	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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.

## DAILY QUALITY CONTROL REPORT

DATE

18 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 48
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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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.

**PREPARED BY: Joshua Hayes** **REVIEWED BY: Tim Turner**

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	
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	
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed 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	
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	
IP012	7/30/2015	A second point for IP012 was added to injection points since IP012 was 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	
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	
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	

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	
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	
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	
IP103	9/18/2015	

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

## DAILY QUALITY CONTROL REPORT

DATE

21 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 49	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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:

# DAILY QUALITY CONTROL REPORT

DATE

21 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 49	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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- 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.

**PREPARED BY:** Joshua Hayes **REVIEWED BY:** Tim Turner

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	
IP226	7/20/2015	
IP228	7/20/2015	
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed 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	
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	
IP012	7/30/2015	A second point for IP012 was added to injection points since IP012 was 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	
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.

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	
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.
IP104	9/21/2015	
IP129	9/21/2015	
IP130	9/21/2015	

## DAILY QUALITY CONTROL REPORT

DATE

22 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 50	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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

## DAILY QUALITY CONTROL REPORT

DATE

22 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 50	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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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.

**PREPARED BY: Joshua Hayes REVIEWED BY: Tim Turner**

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	
IP226	7/20/2015	
IP228	7/20/2015	
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed 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	
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	
IP012	7/30/2015	A second point for IP012 was added to injection points since IP012 was 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	
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.

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	
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	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	
IP111	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.

## DAILY QUALITY CONTROL REPORT

DATE

23 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 51	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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.

## DAILY QUALITY CONTROL REPORT

DATE

23 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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ISGS Injections Former Process Area

WIND

Still	Mod.	High	Report No. 51	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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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.

**PREPARED BY: Joshua Hayes** **REVIEWED BY: Tim Turner**

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	
IP226	7/20/2015	
IP228	7/20/2015	
IP001	7/21/2015	Only three intervals completed, remaining intervals will not be completed 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	
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	
IP012	7/30/2015	A second point for IP012 was added to injection points since IP012 was 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	
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.

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	
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.
IP104	9/21/2015	
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.

## DAILY QUALITY CONTROL REPORT

DATE

29 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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Cutoff Wall Borings and Well Installation

WIND

Still	Mod.	High	Report No. 1	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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### 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.

## DAILY QUALITY CONTROL REPORT

DATE

29 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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Cutoff Wall Borings and Well Installation

WIND

Still	Mod.	High	Report No. 1	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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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.

**PREPARED BY: Joshua Hayes REVIEWED BY: Tim Turner**

# DAILY QUALITY CONTROL REPORT

**DATE**

**30 September 2015**

**DAY**

S	M	T	W	TH	F	S
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**USEPA COR:** Scott Miller

**WEATHER**

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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**PROJECT:** Cabot-Koppers Task Order 35

**TEMPERATURE**

to 32	32-50	50-70	70-85	85-up
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Cutoff Wall Borings and Well Installation

**WIND**

Still	Mod.	High	Report No. 2	
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**CONTRACT:** EP-S4-08-03

**HUMIDITY**

Dry	Mod.	Humid
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## 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'.

## DAILY QUALITY CONTROL REPORT

DATE

30 September 2015

DAY

S	M	T	W	TH	F	S
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USEPA COR: Scott Miller

WEATHER

Clear	Partly Cloudy	Overcast	Rain	Fog/Haze
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PROJECT: Cabot-Koppers Task Order 35

TEMPERATURE

to 32	32-50	50-70	70-85	85-up
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Cutoff Wall Borings and Well Installation

WIND

Still	Mod.	High	Report No. 2	
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CONTRACT: EP-S4-08-03

HUMIDITY

Dry	Mod.	Humid
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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.

**PREPARED BY: Joshua Hayes REVIEWED BY: Tim Turner**