

Appendix G

Field Data Sheets – Surface-Water and Sediment Sampling



SEDIMENT / SURFACE WATER SAMPLE CHARACTERIZATION
2013 SUPPLEMENTAL REMEDIAL INVESTIGATION
DUPONT MONTAGUE FACILITY, MICHIGAN

SAMPLE IDENTIFICATION: SW-01		NORTHING: —	EASTING: —
INVESTIGATORS: Reese Musumeci		SITE ID: SW-01	
FORM COMPLETED BY: Reese Musumeci		DATE: 6/19/2013	WATER DEPTH: ~12"
		TIME: 1015	

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? ☒ Yes ☐ No		
	☐	☐ storm		Air Temperature <u>65</u> °F	
	☐	☐ rain			Other: <u>None</u>
	☐	☐ showers			
	☐	☐ partly cloudy			
	☒	☒ clear/sunny			

INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)			
Substrate Type	Characteristic	Approximate % Composition in Sample	Substrate Type	Characteristic	Approximate % Composition in Sample	
Bedrock		—	Detritus	sticks, wood, coarse plant materials (CPOM)	<u>None</u>	
Boulder	> 256 mm (10")	—		Muck-Mud	black, very fine organic (FPOM)	<u>None</u>
Cobble	64-256 mm (2.5-10")	—			Marl	grey, shell fragments
Gravel	2-64 mm (0.1-2.5")	—				
Sand	0.06-2 mm (gritty)	<u>100%</u>				
Silt	0.004-0.06mm	—				
Clay	<0.004 mm (slick)	—				

SEDIMENT CHARACTERIZATION		NEAR BOTTOM WATER QUALITY	
Substrate color: <u>Tan / light Brown</u>		Temperature (°C): <u>13.96</u>	
Substrate consistency: <u>Sand</u>		DO (mg/L): <u>10.12</u> DO (% Sat): <u>98.1</u>	
Floc layer present: <u>None</u>		pH: <u>7.93</u>	
Moisture conditions: <u>Saturated</u>		Conductivity (mS/cm): <u>0.303</u>	
Benthic fauna: <u>None in sample</u>		ORP (mV): <u>155.1</u>	
Odors Normal Sewage Petroleum Chemical Anaerobic (H ₂ S) <u>None</u> Other _____		Odors <u>None</u>	
Oils <u>Absent</u> Slight Moderate Profuse		Colors <u>Turbid (from recent rainfall)</u>	
		Other <u>None</u>	

Parameter	SED	SW	
	0-0.5'	Unfiltered	Filtered
VOCs	☒	☒	
Metals	☒	☒	☒
Inorganics	☒	☒	
Grain Size/TOC	☒		
Total Hardness		☒	

QA/QC:
Duplicate Sample Station? (Y) N SW-01 -DUP
MS/MSD Sample Station? (Y) N — -MS
— -MSD

NOTES: Sample collected in Person Creek ~25' downstream from property boundary

Dug collected here for SW only

Stream ~ 12 Feet wide at this reach and meandering.



SEDIMENT / SURFACE WATER SAMPLE CHARACTERIZATION
2013 SUPPLEMENTAL REMEDIAL INVESTIGATION
DUPONT MONTAGUE FACILITY, MICHIGAN

SAMPLE IDENTIFICATION: SW-02		NORTHING: —	EASTING: —
INVESTIGATORS: Reese Musumeci		SITE ID: SW-02	
FORM COMPLETED BY: Reese Musumeci		DATE: 6/19/2013	WATER DEPTH: ~8"
		TIME: 1045	

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? ☒ Yes ☐ No	
	☐	☐ storm		Air Temperature ~65 °F
	☐	☐ rain		
	☐	☐ showers		
	☐	☐ partly cloudy		
	☒	☒ clear/sunny		

INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Characteristic	Approximate % Composition in Sample	Substrate Type	Characteristic	Approximate % Composition in Sample
Bedrock		—	Detritus	sticks, wood, coarse plant materials (CPOM)	None
Boulder	> 256 mm (10")	—			
Cobble	64-256 mm (2.5-10")	—			
Gravel	2-64 mm (0.1-2.5")	—	Muck-Mud	black, very fine organic (FPOM)	None
Sand	0.06-2 mm (gritty)	100%	Marl	grey, shell fragments	None
Silt	0.004-0.06mm	—			
Clay	<0.004 mm (slick)	—			

SEDIMENT CHARACTERIZATION			NEAR BOTTOM WATER QUALITY	
Substrate color: Tan / Brown			Temperature (°C): 13.8	
Substrate consistency: Sand			DO (mg/L): 9.67 DO (% Sat): 93.6	
Floc layer present: None			pH: 7.96	
Moisture conditions: saturated			Conductivity (mS/cm): 0.310	
Benthic fauna: None in sample			ORP (mV): 153.8	
Odors ☒ Normal ☐ Chemical ☐ Other Sewage Anaerobic (H ₂ S) Petroleum None			Odors None	
Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse			Colors Turbid	
			Other None	

ANALYSES				QA/QC:	
Parameter	SED	SW		Duplicate Sample Station? (Y/N)	-DUP
	0-0.5'	Unfiltered	Filtered		
VOCs	☒	☒			
Metals	☒	☒	☒		
Inorganics	☒	☒			
Grain Size/TOC	☒				
Total Hardness		☒			
				MS/MSD Sample Station? (Y/N)	-MS -MSD

NOTES:
Sample collected in Pierson Creek ~ 15' below confluence with Tributary
- Stream ~ 12 Feet wide in this reach with meanders



SEDIMENT / SURFACE WATER SAMPLE CHARACTERIZATION
2013 SUPPLEMENTAL REMEDIAL INVESTIGATION
DUPONT MONTAGUE FACILITY, MICHIGAN

SAMPLE IDENTIFICATION: SW-03		NORTHING: _____	EASTING: _____
INVESTIGATORS: Reese Musumeci		SITE ID: SW-03	
FORM COMPLETED BY: Reese Musumeci		DATE: 6/19/2013	WATER DEPTH: ~8"
		TIME: 1130	

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? Yes/No Air Temperature ~70 °F Other: None
	☐	☐	
	☐	☐	
	☐	☐	
	☐	☐	
	☒	☒	
	storm		
	rain		
	showers		
	partly cloudy		
	clear/sunny		

INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)			
Substrate Type	Characteristic	Approximate % Composition in Sample	Substrate Type	Characteristic	Approximate % Composition in Sample	
Bedrock		_____	Detritus	sticks, wood, coarse plant materials (CPOM)	None	
Boulder	> 256 mm (10")	_____		Muck-Mud	black, very fine organic (FPOM)	None
Cobble	64-256 mm (2.5-10")	_____			Marl	grey, shell fragments
Gravel	2-64 mm (0.1-2.5")	_____				
Sand	0.06-2 mm (gritty)	100%				
Silt	0.004-0.06mm	_____				
Clay	<0.004 mm (slick)	_____				

SEDIMENT CHARACTERIZATION				NEAR BOTTOM WATER QUALITY	
Substrate color: Tan/Brown				Temperature (°C): 14.35	
Substrate consistency: Sand				DO (mg/L): 9.73 DO (% Sat): 94.9	
Floc layer present: None				pH: 7.94	
Moisture conditions: Saturated				Conductivity (mS/cm): 0.308	
Benthic fauna: Amphipods in sample.				ORP (mV): 149.4	
Odors				Odors None	
Normal Sewage Petroleum				Colors Turbid (due to recent rainfall)	
Chemical Anaerobic (H ₂ S) None				Other None	
Other _____					
Oils					
Absent Slight Moderate Profuse					

ANALYSES				QA/QC:	
Parameter	SED	SW		Duplicate Sample Station? (Y/N)	
	0-0.5'	Unfiltered	Filtered	_____ -DUP	
VOCs	☒	☒		MS/MSD Sample Station? (Y/N)	
Metals	☒	☒	☒	_____ -MS	
Inorganics	☒	☒		_____ -MSD	
Grain Size/TOC	☒				
Total Hardness		☒			

NOTES:
Sample collected from Pierson Creek
Stream is ~12 Feet wide @ this reach with meanders



SEDIMENT / SURFACE WATER SAMPLE CHARACTERIZATION
2013 SUPPLEMENTAL REMEDIAL INVESTIGATION
DUPONT MONTAGUE FACILITY, MICHIGAN

SAMPLE IDENTIFICATION: SW-04		NORTHING: —	EASTING: —
INVESTIGATORS: Reese Musumeci		SITE ID: SW-04	
FORM COMPLETED BY: Reese Musumeci		DATE: 6/18/13	WATER DEPTH: ~6"
TIME: 1330			

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? <u>Yes</u> / No	
	☐	☒ storm		Air Temperature <u>70</u> °F
	☐	☐ rain		
	☐	☒ showers		
	☐	☐ partly cloudy		
☒	☐ clear/sunny			

INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)			
Substrate Type	Characteristic	Approximate % Composition in Sample	Substrate Type	Characteristic	Approximate % Composition in Sample	
Bedrock		—	Detritus	sticks, wood, coarse plant materials (CPOM)	None	
Boulder	> 256 mm (10")	—		Muck-Mud	black, very fine organic (FPOM)	None
Cobble	64-256 mm (2.5-10")	—			Marl	grey, shell fragments
Gravel	2-64 mm (0.1-2.5")	—				
Sand	0.06-2 mm (gritty)	100%				
Silt	0.004-0.06mm	—				
Clay	<0.004 mm (slick)	—				

SEDIMENT CHARACTERIZATION			NEAR BOTTOM WATER QUALITY	
Substrate color: <u>Tan / Brown</u>			Temperature (°C): <u>16.49</u>	
Substrate consistency: <u>Sand</u>			DO (mg/L): <u>10.02</u> DO (% Sat): <u>102.4</u>	
Floc layer present: <u>None</u>			pH: <u>7.66</u>	
Moisture conditions: <u>Saturated</u>			Conductivity (mS/cm): <u>0.297</u>	
Benthic fauna: <u>None in sample</u>			ORP (mV): <u>150.9</u>	
Odors Normal Sewage Petroleum Chemical Anaerobic (H ₂ S) <u>None</u> Other _____			Odors <u>None</u>	
Oils <u>Absent</u> Slight Moderate Profuse			Colors <u>Turbid (see notes from SW 07)</u>	
			Other <u>None</u>	

ANALYSES				QA/QC:	
Parameter	SED	SW		Duplicate Sample Station? (Y/N) <u>any for SED</u>	
	0-0.5'	Unfiltered	Filtered	<u>SW-04 -DUP</u>	
VOCs	☒	☒		MS/MSD Sample Station? (Y/N) <u>—</u>	
Metals	☒	☒	☒	<u>—</u> -MS	
Inorganics	☒	☒		<u>—</u> -MSD	
Grain Size/TOC	☒				
Total Hardness		☒			

NOTES:
• Dup collected for sediment @ this location
• Sample collected in Person Creek @ confluence with tributary
• collected equipment blank before this location



SEDIMENT / SURFACE WATER SAMPLE CHARACTERIZATION
2013 SUPPLEMENTAL REMEDIAL INVESTIGATION
DUPONT MONTAGUE FACILITY, MICHIGAN

SAMPLE IDENTIFICATION: SW-05		NORTHING: —	EASTING: —
INVESTIGATORS: Reese Musumeci		SITE ID: SW-05	
FORM COMPLETED BY: Reese Musumeci		DATE: 6/18/13	WATER DEPTH: ~16"
TIME: 1200			

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? <u>Yes</u> / No		
	☐	☒ storm		Air Temperature <u>70</u> °F	
	☐	☐ rain			Other: —
	☐	☒ showers			
	☐	☐ partly cloudy			
	☒	☐ clear/sunny			

INORGANIC SUBSTRATE COMPONENTS			ORGANIC SUBSTRATE COMPONENTS			
(should add up to 100%)			(does not necessarily add up to 100%)			
Substrate Type	Characteristic	Approximate % Composition in Sample	Substrate Type	Characteristic	Approximate % Composition in Sample	
Bedrock		_____	Detritus	sticks, wood, coarse plant materials (CPOM)	None	
Boulder	> 256 mm (10")	_____		Muck-Mud	black, very fine organic (FPOM)	None
Cobble	64-256 mm (2.5-10")	_____			Marl	grey, shell fragments
Gravel	2-64 mm (0.1-2.5")	_____				
Sand	0.06-2 mm (gritty)	100%				
Silt	0.004-0.06mm	_____				
Clay	<0.004 mm (slick)	_____				

SEDIMENT CHARACTERIZATION			NEAR BOTTOM WATER QUALITY	
Substrate color: <u>Tan / Brown</u>			Temperature (°C): <u>15.82</u>	
Substrate consistency: <u>Sand</u>			DO (mg/L): <u>9.41</u> DO (% Sat): <u>95.1</u>	
Floc layer present: <u>None</u>			pH: <u>7.89</u>	
Moisture conditions: <u>Saturated</u>			Conductivity (mS/cm): <u>0.261</u>	
Benthic fauna: <u>None in sample</u>			ORP (mV): <u>148.8</u>	
Odors Normal Sewage Petroleum Chemical Anaerobic (H ₂ S) <u>None</u> Other _____			Odors <u>None</u>	
Oils <u>Absent</u> Slight Moderate Profuse			Colors <u>Turbid (see notes from SW-07)</u>	
			Other <u>None</u>	

ANALYSES				QA/QC:	
Parameter	SED	SW		Duplicate Sample Station? (Y/N)	
	0-0.5'	Unfiltered	Filtered	— -DUP	
VOCs	☒	☐	☐	MS/MSD Sample Station? (Y/N)	
Metals	☒	☒	☐	<u>SW-05</u> -MS	
Inorganics	☒	☒	☐	<u>SW-05</u> -MSD	
Grain Size/TOC	☒	☐	☐		
Total Hardness	☐	☒	☐		

NOTES:
Sample ~100' downstream from NPDES pipe
- MS/MSD collected here
- saw a snapping turtle @ this location in Person Creek



SEDIMENT / SURFACE WATER SAMPLE CHARACTERIZATION
2013 SUPPLEMENTAL REMEDIAL INVESTIGATION
DUPONT MONTAGUE FACILITY, MICHIGAN

SAMPLE IDENTIFICATION: SW-06		NORTHING:	EASTING:
INVESTIGATORS: Reese Musumeci		SITE ID: SW-06	
FORM COMPLETED BY: Reese Musumeci		DATE: 6/18/13 TIME: 1030	WATER DEPTH: ~12"

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? <u>Yes</u> / No	
	☐	☒ storm		Air Temperature <u>65</u> °F
	☐	☐ rain		
	☐	☒ showers		
	☐	☐ partly cloudy		
	☒	☐ clear/sunny		

INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Characteristic	Approximate % Composition in Sample	Substrate Type	Characteristic	Approximate % Composition in Sample
Bedrock		_____	Detritus	sticks, wood, coarse plant materials (CPOM)	Some ~19%
Boulder	> 256 mm (10")	_____			
Cobble	64-256 mm (2.5-10")	_____			
Gravel	2-64 mm (0.1-2.5")	_____	Muck-Mud	black, very fine organic (FPOM)	None
Sand	0.06-2 mm (gritty)	97%	Marl	grey, shell fragments	None
Silt	0.004-0.06mm	3%			
Clay	<0.004 mm (slick)	_____			

SEDIMENT CHARACTERIZATION			NEAR BOTTOM WATER QUALITY	
Substrate color: <u>Tan / Brown</u>			Temperature (°C): <u>14.13</u>	
Substrate consistency: <u>Sandy</u>			DO (mg/L): <u>9.22</u> DO (% Sat): <u>89.9</u>	
Floc layer present: <u>None</u>			pH: <u>7.50</u>	
Moisture conditions: <u>Saturated</u>			Conductivity (mS/cm): <u>0.322</u>	
Benthic fauna: <u>None seen in sample</u>			ORP (mV): <u>196.2</u>	
Odors Normal Sewage Petroleum Chemical Anaerobic (H ₂ S) <u>None</u> Other _____			Odors <u>None</u>	
Oils <u>Absent</u> Slight Moderate Profuse			Colors <u>Turbid (see notes from SW-07)</u>	
			Other _____	

ANALYSES				QA/QC:	
Parameter	SED	SW		Duplicate Sample Station? (Y / <u>N</u>)	
	0-0.5'	Unfiltered	Filtered	_____ -DUP	
VOCs	☒	☒	☐		
Metals	☒	☒	☒		
Inorganics	☒	☒	☐	MS/MSD Sample Station? (Y / <u>N</u>)	
Grain Size/TOC	☒	☐	☐	_____ -MS	
Total Hardness	☐	☒	☐	_____ -MSD	

NOTES: Sample collected in Pierson creek main channel at confluence with tributary (containing site SW-11)



SEDIMENT / SURFACE WATER SAMPLE CHARACTERIZATION
2013 SUPPLEMENTAL REMEDIAL INVESTIGATION
DUPONT MONTAGUE FACILITY, MICHIGAN

SAMPLE IDENTIFICATION: SW-07		NORTHING: —	EASTING: —
INVESTIGATORS: Reese Musumeci		SITE ID: SW-07	
FORM COMPLETED BY: Reese Musumeci		DATE: 6/18/13	WATER DEPTH: ~12"
TIME: 0945			

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? (Yes) No	
	☐	☒ storm		Air Temperature ~65 °F
	☐	☐ rain		
	☐	☒ showers		
	☐	☐ partly cloudy		
	☒	☐ clear/sunny		

INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Characteristic	Approximate % Composition in Sample	Substrate Type	Characteristic	Approximate % Composition in Sample
Bedrock		—	Detritus	sticks, wood, coarse plant materials (CPOM)	~19%
Boulder	> 256 mm (10")	—			
Cobble	64-256 mm (2.5-10")	—			
Gravel	2-64 mm (0.1-2.5")	—	Muck-Mud	black, very fine organic (FPOM)	None
Sand	0.06-2 mm (gritty)	~97%	Marl	grey, shell fragments	None
Silt	0.004-0.06mm	~3%			
Clay	<0.004 mm (slick)	—			

SEDIMENT CHARACTERIZATION			NEAR BOTTOM WATER QUALITY	
Substrate color: Tan / Brown			Temperature (°C): 14.7	
Substrate consistency: Sand			DO (mg/L): 9.26 / DO (% Sat): 91.2	
Floc layer present: None			pH: 6.92	
Moisture conditions: Saturated			Conductivity (mS/cm): 0.302	
Benthic fauna: Amphipoda			ORP (mV): 239.9	
Odors Normal Sewage Petroleum Chemical Anaerobic (H ₂ S) None Other —			Odors None	
Oils Absent Slight Moderate Profuse			Colors Turbid (see notes)	
			Other —	

ANALYSES				QA/QC:	
Parameter	SED	SW		Duplicate Sample Station? (Y/N)	
	0-0.5'	Unfiltered	Filtered	— — — — — DUP	
VOCs	☒	☒			
Metals	☒	☒	☒		
Inorganics	☒	☒			
Grain Size/TOC	☒				
Total Hardness		☒			
				MS/MSD Sample Station? (Y/N)	
				— — — — — MS	
				— — — — — MSD	

NOTES: Heavy rain on Saturday (6/15)
sample collected just upstream of southern property boundary.



SEDIMENT / SURFACE WATER SAMPLE CHARACTERIZATION
2013 SUPPLEMENTAL REMEDIAL INVESTIGATION
DUPONT MONTAGUE FACILITY, MICHIGAN

SAMPLE IDENTIFICATION: SW-08		NORTHING: _____	EASTING: _____
INVESTIGATORS: Reese Musumeci		SITE ID: SW-08	
FORM COMPLETED BY: Reese Musumeci		DATE: 6/19/13	WATER DEPTH: ~6"
WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days?
	☐ storm ☐ rain ☐ showers ☒ partly cloudy ☒ clear/sunny	☐ storm ☐ rain ☐ showers ☐ partly cloudy ☒ clear/sunny	Yes ☒ No ☐ Air Temperature ~65 °F Other: _____

INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Characteristic	Approximate % Composition in Sample	Substrate Type	Characteristic	Approximate % Composition in Sample
Bedrock		_____	Detritus	sticks, wood, coarse plant materials (CPOM)	~30%
Boulder	> 256 mm (10")	_____	Muck-Mud	black, very fine organic (FPOM)	~50%
Cobble	64-256 mm (2.5-10")	_____	Marl	grey, shell fragments	_____
Gravel	2-64 mm (0.1-2.5")	_____			
Sand	0.06-2 mm (gritty)	20%			
Silt	0.004-0.06mm	80%			
Clay	<0.004 mm (slick)	_____			

SEDIMENT CHARACTERIZATION			NEAR BOTTOM WATER QUALITY	
Substrate color: Dark brown / Black			Temperature (°C): 10.09	
Substrate consistency: Sandy silt Muck			DO (mg/L): 8.06 DO (% Sat): 71.2	
Floc layer present: None			pH: 6.56	
Moisture conditions: Saturated			Conductivity (mS/cm): 0.310	
Benthic fauna: None in sample			ORP (mV): 239.2	
Odors Normal Sewage Petroleum Chemical Anaerobic (H ₂ S) None Other organic / sulfur			Odors None Colors clear Other None	
Oils Absent Slight Moderate Profuse				

ANALYSES				QA/QC:	
Parameter	SED	SW		Duplicate Sample Station? (Y/N)	
	0-0.5'	Unfiltered	Filtered	_____ -DUP	
VOCs	☒	☒		MS/MSD Sample Station? (Y/N)	
Metals	☒	☒	☒	_____ -MS	
Inorganics	☒	☒		_____ -MSD	
Grain Size/TOC	☒				
Total Hardness		☒			

NOTES: Sample collected in tributary ~ 25' downstream from property boundary
-Trib. ~ 10 feet wide in this section (very low flow)



SEDIMENT / SURFACE WATER SAMPLE CHARACTERIZATION
2013 SUPPLEMENTAL REMEDIAL INVESTIGATION
DUPONT MONTAGUE FACILITY, MICHIGAN

SAMPLE IDENTIFICATION: SW-09		NORTHING: _____	EASTING: _____
INVESTIGATORS: Reese Musumeci		SITE ID: SW-09	
FORM COMPLETED BY: Reese Musumeci		DATE: 6/19/13	WATER DEPTH: ~3"
		TIME: 0845	

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? ☒ Yes / ☐ No	
	☐	☐ storm		Air Temperature ~65 °F
	☐	☐ rain		
	☐	☐ showers		
	☐	☐ partly cloudy		
☒	☒ clear/sunny			

INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Characteristic	Approximate % Composition in Sample	Substrate Type	Characteristic	Approximate % Composition in Sample
Bedrock		—	Detritus	sticks, wood, coarse plant materials (CPOM)	~30%
Boulder	> 256 mm (10")	—	Muck-Mud	black, very fine organic (FPOM)	~50%
Cobble	64-256 mm (2.5-10")	—	Marl	grey, shell fragments	NONE
Gravel	2-64 mm (0.1-2.5")	—			
Sand	0.06-2 mm (gritty)	20%			
Silt	0.004-0.06mm	80%			
Clay	<0.004 mm (slick)	—			

SEDIMENT CHARACTERIZATION			NEAR BOTTOM WATER QUALITY	
Substrate color: Dark Brown / Black			Temperature (°C): 10.95	
Substrate consistency: sandy silt/muck			DO (mg/L): 10.07 DO (% Sat): 91.2	
Floc layer present: None			pH: 5.74	
Moisture conditions: Saturated			Conductivity (mS/cm): 0.346	
Benthic fauna: None in sample			ORP (mV): 281.0	
Odors			Odors None	
Normal	Sewage	Petroleum	Colors clear	
Chemical	Anaerobic (H ₂ S)	None	Other None	
Other	organic			
Oils				
Absent	Slight	Moderate	Profuse	

ANALYSES				QA/QC:	
Parameter	SED	SW		Duplicate Sample Station? (Y/N)	
	0-0.5'	Unfiltered	Filtered	_____ -DUP	
VOCs	☒	☒		MS/MSD Sample Station? (Y/N)	
Metals	☒	☒	☒	_____ -MS	
Inorganics	☒	☒		_____ -MSD	
Grain Size/TOC	☒				
Total Hardness		☒			

NOTES:
- Sample moved ~ 50' downstream because site conditions did not allow for sampling.
- Sample collected in tributary
- Tributary ~ 1 foot wide in this section (dry, low flow)



SEDIMENT / SURFACE WATER SAMPLE CHARACTERIZATION
2013 SUPPLEMENTAL REMEDIAL INVESTIGATION
DUPONT MONTAGUE FACILITY, MICHIGAN

SAMPLE IDENTIFICATION: SW-10		NORTHING: _____	EASTING: _____
INVESTIGATORS: Reese Musumeci		SITE ID: SW-10	
FORM COMPLETED BY: Reese Musumeci		DATE: 6/18/2013	WATER DEPTH: ~4"
		TIME: 1400	

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? <u>Yes</u> /No		
	☐	☒ storm		Air Temperature <u>70</u> °F	
	☐	☐ rain			Other:
	☐	☒ showers			
	☒	☐ partly cloudy			
	☒	☐ clear/sunny			

INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Characteristic	Approximate % Composition in Sample	Substrate Type	Characteristic	Approximate % Composition in Sample
Bedrock		_____	Detritus	sticks, wood, coarse plant materials (CPOM)	~10%
Boulder	> 256 mm (10")	_____			
Cobble	64-256 mm (2.5-10")	_____			
Gravel	2-64 mm (0.1-2.5")	_____	Muck-Mud	black, very fine organic (FPOM)	None
Sand	0.06-2 mm (gritty)	70%	Marl	grey, shell fragments	None
Silt	0.004-0.06mm	30%			
Clay	<0.004 mm (slick)	_____			

SEDIMENT CHARACTERIZATION			NEAR BOTTOM WATER QUALITY	
Substrate color: <u>Brown</u>			Temperature (°C): <u>14.07</u>	
Substrate consistency: <u>silty sand</u>			DO (mg/L): <u>6.93</u> DO (% Sat): <u>67.3</u>	
Floc layer present: <u>None</u>			pH: <u>7.52</u>	
Moisture conditions: <u>Saturated</u>			Conductivity (mS/cm): <u>0.327</u>	
Benthic fauna: <u>Caddisflies & Amphipods</u>			ORP (mV): <u>130.5</u>	
Odors <u>Normal</u> Sewage Petroleum Chemical Anaerobic (H ₂ S) None Other _____			Odors <u>None</u>	
Oils <u>Absent</u> Slight Moderate Profuse			Colors <u>Slightly turbid</u>	
			Other <u>None</u>	

ANALYSES				QA/QC:	
Parameter	SED	SW		Duplicate Sample Station? (Y/N)	
	0-0.5'	Unfiltered	Filtered	_____ -DUP	
VOCs	☒	☒		MS/MSD Sample Station? (Y/N)	
Metals	☒	☒	☒	_____ -MS	
Inorganics	☒	☒		_____ -MSD	
Grain Size/TOC	☒				
Total Hardness		☒			

NOTES: Collected sample in tributary ~50' upstream of confluence with Pierson Creek



SEDIMENT / SURFACE WATER SAMPLE CHARACTERIZATION
2013 SUPPLEMENTAL REMEDIAL INVESTIGATION
DUPONT MONTAGUE FACILITY, MICHIGAN

SAMPLE IDENTIFICATION: SW-11		NORTHING: _____	EASTING: _____
INVESTIGATORS: Reese Musumeci		SITE ID: SW-11	
FORM COMPLETED BY: Reese Musumeci		DATE: 6/18/2013 TIME: 1100	WATER DEPTH: 2"

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? Yes / No Air Temperature ~65 °F Other: _____
	☐	☒ storm	
	☐	☐ rain	
	☐	☒ showers	
	☐	☐ partly cloudy	
	☒	☐ clear/sunny	

INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Characteristic	Approximate % Composition in Sample	Substrate Type	Characteristic	Approximate % Composition in Sample
Bedrock		_____	Detritus	sticks, wood, coarse plant materials (CPOM)	~5% (sticks/leaves)
Boulder	> 256 mm (10")	_____	Muck-Mud	black, very fine organic (FPOM)	None
Cobble	64-256 mm (2.5-10")	_____	Marl	grey, shell fragments	None
Gravel	2-64 mm (0.1-2.5")	_____			
Sand	0.06-2 mm (gritty)	~90%			
Silt	0.004-0.06mm	~10%			
Clay	<0.004 mm (slick)	_____			

SEDIMENT CHARACTERIZATION			NEAR BOTTOM WATER QUALITY	
Substrate color: Tan/Brown			Temperature (°C): 11.40	
Substrate consistency: Sandy			DO (mg/L): 7.50 DO (% Sat): 68.9	
Floc layer present: None			pH: 5.56	
Moisture conditions: Saturated			Conductivity (mS/cm): 0.331	
Benthic fauna: None seen in sample			ORP (mV): 250.5	
Odors Normal Sewage Petroleum Chemical Anaerobic (H ₂ S) None Other _____			Odors None	
Oils Absent Slight Moderate Profuse			Colors clear	
			Other None	

ANALYSES				QA/QC:	
Parameter	SED	SW		Duplicate Sample Station? (Y/N)	
	0-0.5'	Unfiltered	Filtered	_____ -DUP	
VOCs	☒	☒		MS/MSD Sample Station? (Y/N)	
Metals	☒	☒	☒	_____ -MS	
Inorganics	☒	☒		_____ -MSD	
Grain Size/TOC	☒				
Total Hardness		☒			

NOTES:
Collected in tributary ~ 40' from confluence w/ Person creek. Water very shallow, low flow, pooled up in a few locations.

Appendix H

Laboratory Analytical Reports – Groundwater Sampling

**ADQM DATA REVIEW
NARRATIVE**

Site **MTG/ Montague**

Project **Remedial Investigation GW 6/13**

Project Reviewer **Dyana Sagges**

Sampling Date **6/18, 6/19 and 6/20/13**

Analytical Protocol

LABORATORY	ANALYSIS	METHOD
Lancaster Labs, Lancaster PA		
	Select List VOA	SW-846 8260B
	Acetaldehyde	SW-846 8315A
	Select List Metals- Total Cadmium, Calcium, Magnesium Antimony, Arsenic, Lead Mercury	SW-846 6010B SW-846 6020 SW-846 7470A
	Select List Metals- Dissolved Cadmium Antimony, Arsenic, Lead Mercury	SW-846 6010B SW-846 6020 SW-846 7470A
	Ammonia	SM 4500-NH3 D-1997
	Chloride, Fluoride, Sulfate	EPA 300.0
	Total Hardness as CaCO3	SM 2340 B-1997

Sample Receipt

The following items are noted for this data set:

- All samples were received in satisfactory condition and within EPA temperature guidelines on 6/21/13.
- Dissolved samples were all field filtered.

Data Review

The electronic data submitted for this project was reviewed via the DuPont Data Review (DDR) process. Overall the data is acceptable for use without qualification. Some of the data was qualified due to detections in the equipment blank, detections in the method blank and results detected between the method detection limit and the practical quantitation limit.

- Equipment Blanks for Total samples were collected 6/19 and 6/20/13. Equipment Blanks for Dissolved samples were collected 6/19 and 6/20/13. A Trip Blank was only collected 6/20/13. No Equipment Blanks or Trip Blanks were collected 6/18/13. The DDR evaluates equipment blank contamination by date. Therefore, if a detection was found in the equipment blank, the DDR compares the results of those samples collected the same day as the equipment blank to assess contamination. Blank contamination will not be assessed on the days when equipment blanks were not collected.
- The acetaldehyde reporting limit for some samples are elevated due to interference from the sample matrix.

DuPont In-House Review (DDR)

The DDR is an automated internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the DuPont CRG Envista database and run through an automated program where a series of checks are performed on the data. The data is evaluated against hold time criteria; checked for blank contamination; assessed against matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes; laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPDs between these spikes; assessed against RPDs between laboratory replicates (inorganics); and assessed against surrogate spike recoveries (organics). The DDR applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

Please refer to the laboratory report for a description of the lab qualifiers.

DDR Narrative Report

Site: Montague

Sampling Program: REM INVESTIGATION GW 6/13

Validation Options: LABSTATS

Validation Reason Code: Contamination detected in equipment blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated equipment blank(s).

Field Sample ID	Date		Lab Sample ID	Analyte	Result	Units	Type	Validation		Analytical Method	Prep
	Sampled							PQL	Qualifier		
R0613-2013GW-10	06/19/2013		7102581	AMMONIA	0.77	MG/L	MDL	0.060	B	4500-NH3 D-1997	

Site: Montague

Sampling Program: REM INVESTIGATION GW 6/13

Validation Options: LABSTATS

Validation Reason Code: Contamination detected in Method Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated method blank(s).

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RI0613-2013GW-02	06/19/2013	7102565	AMMONIA	0.22	MG/L	MDL	0.060	0.20	B	4500-NH3 D-1997		
RI0613-2013GW-06	06/19/2013	7102573	AMMONIA	0.22	MG/L	MDL	0.060	0.20	B	4500-NH3 D-1997		
RI0613-2013GW-09	06/19/2013	7102579	AMMONIA	0.20	MG/L	MDL	0.060	0.20	B	4500-NH3 D-1997		
RI0613-2013GW-11	06/18/2013	7102583	AMMONIA	0.34	MG/L	MDL	0.060	0.20	B	4500-NH3 D-1997		
RI0613-2013GW-13	06/19/2013	7102587	AMMONIA	0.10	MG/L	MDL	0.060	0.20	B	4500-NH3 D-1997		
RI0613-2013GW-07	06/20/2013	7102575	AMMONIA	0.10	MG/L	MDL	0.060	0.20	B	4500-NH3 D-1997		
RI0613-2013GW-05	06/20/2013	7102571	AMMONIA	0.11	MG/L	MDL	0.060	0.20	B	4500-NH3 D-1997		
RI0613-2013GW-01	06/18/2013	7102555	AMMONIA	0.060	MG/L	MDL	0.060	0.20	B	4500-NH3 D-1997		
RI0613-2013GW-01-D	06/18/2013	7102563	AMMONIA	0.14	MG/L	MDL	0.060	0.20	B	4500-NH3 D-1997		
RI0613-2013GW-08	06/19/2013	7102577	AMMONIA	0.14	MG/L	MDL	0.060	0.20	B	4500-NH3 D-1997		

Site: Montague

Sampling Program: REM INVESTIGATION GW 6/13

Validation Options: LABSTATS

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
Ri0613-2013GW-07	06/20/2013	7102575	CHLORIDE	1.0	MG/L	MDL	1.0	2.0	J	300.0		
Ri0613-2013GW-07	06/20/2013	7102575	MERCURY	0.00012	MG/L	MDL	0.000060	0.00020	J	7470A		7470A
Ri0613-2013GW-06	06/19/2013	7102573	CHLORIDE	1.1	MG/L	MDL	1.0	2.0	J	300.0		
Ri0613-2013GW-06	06/19/2013	7102573	MERCURY	0.00014	MG/L	MDL	0.000060	0.00020	J	7470A		7470A
Ri0613-2013GW-06	06/19/2013	7102573	ACETALDEHYDE	120	UG/L	MDL	100	300	J	8315A		8315A
Ri0613-2013GW-07-Z	06/20/2013	7102576	LEAD	0.00024	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
Ri0613-2013GW-07-Z	06/20/2013	7102576	ARSENIC	0.00055	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
Ri0613-2013GW-08	06/19/2013	7102577	CHLOROFORM	1	UG/L	MDL	0.8	5	J	8260B		5030B
Ri0613-2013GW-08	06/19/2013	7102577	1,1,1-TRICHLOROETHANE	0.8	UG/L	MDL	0.8	5	J	8260B		5030B
Ri0613-2013GW-08	06/19/2013	7102577	LEAD	0.00085	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
Ri0613-2013GW-08	06/19/2013	7102577	1,1,2-TRICHLOROTRIFLUOROETHANE	7	UG/L	MDL	2	10	J	8260B		5030B
Ri0613-2013GW-09-Z	06/19/2013	7102580	MERCURY	0.000094	MG/L	MDL	0.000060	0.00020	J	7470A		7470A
Ri0613-2013GW-10	06/19/2013	7102581	TETRACHLOROETHENE	2	UG/L	MDL	0.8	5	J	8260B		5030B
Ri0613-2013GW-10	06/19/2013	7102581	CHLORIDE	1.8	MG/L	MDL	1.0	2.0	J	300.0		
Ri0613-2013GW-10	06/19/2013	7102581	ACETONE	16	UG/L	MDL	6	20	J	8260B		5030B
Ri0613-2013GW-10	06/19/2013	7102581	ARSENIC	0.0011	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
Ri0613-2013GW-10	06/19/2013	7102581	ACETALDEHYDE	110	UG/L	MDL	100	300	J	8315A		8315A
Ri0613-2013GW-13-Z	06/19/2013	7102588	LEAD	0.00018	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
Ri0613-2013GW-14	06/20/2013	7102589	MERCURY	0.000073	MG/L	MDL	0.000060	0.00020	J	7470A		7470A
Ri0613-2013GW-14-Z	06/20/2013	7102590	LEAD	0.00055	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
Ri0613-2013GW-14-Z	06/20/2013	7102590	ARSENIC	0.00071	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
Ri0613-2013GW-10-Z	06/19/2013	7102582	ARSENIC	0.00070	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.

Site: Montague

Sampling Program: REM INVESTIGATION GW 6/13

Validation Options: LABSTATS

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
R10613-2013GW-11	06/18/2013	7102583	CHLORIDE	1.4	MG/L	MDL	1.0	2.0	J	300.0		
R10613-2013GW-11	06/18/2013	7102583	MERCURY	0.00019	MG/L	MDL	0.000060	0.00020	J	7470A		7470A
R10613-2013GW-11	06/18/2013	7102583	ARSENIC	0.0015	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
R10613-2013GW-11	06/18/2013	7102583	ACETALDEHYDE	50	UG/L	MDL	40	120	J	8315A		8315A
R10613-2013GW-11-Z	06/18/2013	7102584	LEAD	0.00082	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
R10613-2013GW-11-Z	06/18/2013	7102584	ARSENIC	0.00046	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
R10613-2013GW-12	06/20/2013	7102585	ACETONE	7	UG/L	MDL	6	20	J	8260B		5030B
R10613-2013GW-12	06/20/2013	7102585	MERCURY	0.000091	MG/L	MDL	0.000060	0.00020	J	7470A		7470A
R10613-2013GW-12	06/20/2013	7102585	ACETALDEHYDE	60	UG/L	MDL	40	120	J	8315A		8315A
R10613-2013GW-12-Z	06/20/2013	7102586	LEAD	0.00081	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
R10613-2013GW-12-Z	06/20/2013	7102586	ARSENIC	0.00059	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
R10613-2013GW-13	06/19/2013	7102587	TETRACHLOROETHE NE	1	UG/L	MDL	0.8	5	J	8260B		5030B
R10613-2013GW-13	06/19/2013	7102587	1,1,2- TRICHLOROTRIFLUO ROETHANE	3	UG/L	MDL	2	10	J	8260B		5030B
EB-061913-GW	06/19/2013	7102591	CALCIUM	0.131	MG/L	MDL	0.0334	0.200	J	6010B		3010A
EB-062013-GW	06/20/2013	7102594	CALCIUM	0.0831	MG/L	MDL	0.0334	0.200	J	6010B		3010A
EB-062013-GW	06/20/2013	7102594	AMMONIA	0.10	MG/L	MDL	0.060	0.20	J	4500-NH3 D- 1997		
R10613-2013GW-01	06/18/2013	7102555	TETRACHLOROETHE NE	1	UG/L	MDL	0.8	5	J	8260B		5030B
R10613-2013GW-01	06/18/2013	7102555	LEAD	0.00037	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
R10613-2013GW-01	06/18/2013	7102555	ARSENIC	0.0017	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
R10613-2013GW-01	06/18/2013	7102555	1,1,2- TRICHLOROTRIFLUO ROETHANE	3	UG/L	MDL	2	10	J	8260B		5030B
R10613-2013GW-01-Z	06/18/2013	7102559	ARSENIC	0.0018	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
R10613-2013GW-01-Z-D	06/18/2013	7102564	ARSENIC	0.0018	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.

Site: Montague

Sampling Program: REM INVESTIGATION GW 6/13

Validation Options: LABSTATS

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
R10613-2013GW-02	06/19/2013	7102565	LEAD	0.00080	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
R10613-2013GW-01-D	06/18/2013	7102563	TETRACHLOROETHENE	1	UG/L	MDL	0.8	5	J	8260B		5030B
R10613-2013GW-01-D	06/18/2013	7102563	LEAD	0.00052	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
R10613-2013GW-01-D	06/18/2013	7102563	ARSENIC	0.0017	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
R10613-2013GW-01-D	06/18/2013	7102563	1,1,2-TRICHLOROTRIFLUOROETHANE ARSENIC	3	UG/L	MDL	2	10	J	8260B		5030B
R10613-2013GW-03	06/20/2013	7102567	ARSENIC	0.0012	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
R10613-2013GW-03-Z	06/20/2013	7102568	LEAD	0.00031	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
R10613-2013GW-03-Z	06/20/2013	7102568	ARSENIC	0.00057	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
R10613-2013GW-04	06/18/2013	7102569	SULFATE	4.9	MG/L	MDL	1.5	5.0	J	300.0		
R10613-2013GW-04	06/18/2013	7102569	CADMIUM	0.0026	MG/L	MDL	0.00076	0.0050	J	6010B		3010A
R10613-2013GW-05	06/20/2013	7102571	CHLORIDE	1.5	MG/L	MDL	1.0	2.0	J	300.0		
R10613-2013GW-05	06/20/2013	7102571	MERCURY	0.00013	MG/L	MDL	0.000060	0.00020	J	7470A		7470A
R10613-2013GW-09	06/19/2013	7102579	TETRACHLOROETHENE	2	UG/L	MDL	0.8	5	J	8260B		5030B
R10613-2013GW-09	06/19/2013	7102579	MERCURY	0.00011	MG/L	MDL	0.000060	0.00020	J	7470A		7470A

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

July 03, 2013

Project: MTG - REM INVESTIGATION GW

Submittal Date: 06/21/2013

Group Number: 1398823

PO Number: LBIO-66380

State of Sample Origin: MI

Client Sample Description

Lancaster Labs (LL)

RI0613-2013GW-01 Groundwater	7102555
RI0613-2013GW-01 MS Groundwater	7102556
RI0613-2013GW-01 MSD Groundwater	7102557
RI0613-2013GW-01 Dupl Groundwater	7102558
RI0613-2013GW-01-Z Groundwater	7102559
RI0613-2013GW-01-Z MS Groundwater	7102560
RI0613-2013GW-01-Z MSD Groundwater	7102561
RI0613-2013GW-01-Z Dupl Groundwater	7102562
RI0613-2013GW-01-D Groundwater	7102563
RI0613-2013GW-01-Z-D Groundwater	7102564
RI0613-2013GW-02 Groundwater	7102565
RI0613-2013GW-02-Z Groundwater	7102566
RI0613-2013GW-03 Groundwater	7102567
RI0613-2013GW-03-Z Groundwater	7102568
RI0613-2013GW-04 Groundwater	7102569
RI0613-2013GW-04-Z Groundwater	7102570
RI0613-2013GW-05 Groundwater	7102571
RI0613-2013GW-05-Z Groundwater	7102572
RI0613-2013GW-06 Groundwater	7102573
RI0613-2013GW-06-Z Groundwater	7102574
RI0613-2013GW-07 Groundwater	7102575
RI0613-2013GW-07-Z Groundwater	7102576
RI0613-2013GW-08 Groundwater	7102577
RI0613-2013GW-08-Z Groundwater	7102578
RI0613-2013GW-09 Groundwater	7102579
RI0613-2013GW-09-Z Groundwater	7102580
RI0613-2013GW-10 Groundwater	7102581
RI0613-2013GW-10-Z Groundwater	7102582
RI0613-2013GW-11 Groundwater	7102583
RI0613-2013GW-11-Z Groundwater	7102584
RI0613-2013GW-12 Groundwater	7102585

RI0613-2013GW-12-Z Groundwater	7102586
RI0613-2013GW-13 Groundwater	7102587
RI0613-2013GW-13-Z Groundwater	7102588
RI0613-2013GW-14 Groundwater	7102589
RI0613-2013GW-14-Z Groundwater	7102590
EB-061913-GW Blank Water	7102591
EB-061913-GW-Z Blank Water	7102592
TB-062013-GW Blank Water	7102593
EB-062013-GW Blank Water	7102594
EB-062013-GW-Z Blank Water	7102595

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: RI0613-2013GW-01 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102555
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	3 J	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	1 J	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	231	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	58.7	0.0334	0.200	1
01757	Magnesium	7439-95-4	20.6	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0017 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00037 J	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	8.7	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	25.3	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.060 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102555
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131781AA	06/27/2013 13:41	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131781AA	06/27/2013 13:41	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 12:18	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 20:28	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 20:28	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 20:28	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 12:47	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 12:47	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 12:47	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 08:59	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655901A	06/29/2013 10:53	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655901A	06/29/2013 10:53	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655901A	06/29/2013 10:53	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH ₃ D-1997	1	13182006201A	07/01/2013 20:25	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH ₃ B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01 MS Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102556
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	100	6	20	1
10335	Benzene	71-43-2	20	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	24	1	5	1
10335	Chloroform	67-66-3	21	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	22	2	5	1
10335	1,1-Dichloroethane	75-34-3	20	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	21	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	22	0.8	5	1
10335	Freon 113	76-13-1	26	2	10	1
10335	Methylene Chloride	75-09-2	21	2	5	1
10335	Tetrachloroethene	127-18-4	21	0.8	5	1
10335	Tetrahydrofuran	109-99-9	100	4	10	1
10335	Toluene	108-88-3	20	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	24	0.8	5	1
10335	Trichloroethene	79-01-6	21	1	5	1
10335	Trichlorofluoromethane	75-69-4	19	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	490	20	60	1
Metals	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.0476	0.00076	0.0050	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.0062	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0123	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0159	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	26.2	2.0	4.0	10
01504	Fluoride	16984-48-8	9.7	0.80	1.0	10
00228	Sulfate	14808-79-8	68.9	3.0	10.0	10
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	4.9	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01 MS Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102556
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131781AA	06/27/2013 14:05	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131781AA	06/27/2013 14:05	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 12:26	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 20:39	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 12:54	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 12:54	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 12:54	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:07	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655901A	06/29/2013 11:13	Christopher D Meeks	10
01504	Fluoride	EPA 300.0	1	13180655901A	06/29/2013 11:13	Christopher D Meeks	10
00228	Sulfate	EPA 300.0	1	13180655901A	06/29/2013 11:13	Christopher D Meeks	10
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 20:29	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01 MSD Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102557
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	110	6	20	1
10335	Benzene	71-43-2	20	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	24	1	5	1
10335	Chloroform	67-66-3	21	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	22	2	5	1
10335	1,1-Dichloroethane	75-34-3	20	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	20	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	21	0.8	5	1
10335	Freon 113	76-13-1	27	2	10	1
10335	Methylene Chloride	75-09-2	21	2	5	1
10335	Tetrachloroethene	127-18-4	21	0.8	5	1
10335	Tetrahydrofuran	109-99-9	100	4	10	1
10335	Toluene	108-88-3	20	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	24	0.8	5	1
10335	Trichloroethene	79-01-6	21	1	5	1
10335	Trichlorofluoromethane	75-69-4	19	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	470	20	60	1
Metals	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.0481	0.00076	0.0050	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.0062	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0119	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0157	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	0.000060	0.00020	1
Wet Chemistry	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	4.8	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131781AA	06/27/2013 14:29	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131781AA	06/27/2013 14:29	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 12:35	James H Place	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01 MSD Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102557
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 20:43	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 12:57	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 12:57	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 12:57	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:09	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 20:34	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01 Dupl Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102558
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0019 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00038 J	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1
Wet Chemistry						
00224	Chloride	EPA 300.0 16887-00-6	mg/l 8.5	mg/l 1.0	mg/l 2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	24.8	1.5	5.0	5
12679	Ammonia	SM 4500-NH3 D-1997 7664-41-7	mg/l 0.080 J	mg/l 0.060	mg/l 0.20	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 20:35	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 12:52	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 12:52	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 12:52	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:01	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655901A	06/29/2013 11:29	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655901A	06/29/2013 11:29	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655901A	06/29/2013 11:29	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 20:39	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01 Dupl Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102558
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102559
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG1F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0018 J	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 01:38	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 08:51	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 08:51	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 08:51	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 09:58	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01-Z MS Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102560
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG1F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l 0.0508	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l 0.0058	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0125	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0156	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l 0.0010	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 01:49	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 08:56	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 08:56	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 08:56	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:02	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01-Z MSD Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102561
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG1F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l 0.0507	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l 0.0060	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0130	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0158	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l 0.0010	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 01:53	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 08:58	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 08:58	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 08:58	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:04	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01-Z Dupl Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102562
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG1F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0018 J	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 01:46	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 08:54	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 08:54	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 08:54	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:00	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01-D Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102563
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG1D

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	3 J	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	1 J	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	234	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	59.4	0.0334	0.200	1
01757	Magnesium	7439-95-4	20.9	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0017 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00052 J	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	8.3	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	24.9	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.14 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01-D Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102563
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG1D

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131781AA	06/27/2013 21:20	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131781AA	06/27/2013 21:20	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 12:43	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:06	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:06	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:06	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:11	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:11	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:11	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:11	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655901A	06/29/2013 12:18	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655901A	06/29/2013 12:18	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655901A	06/29/2013 12:18	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH ₃ D-1997	1	13182006201A	07/01/2013 20:45	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH ₃ B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-01-Z-D Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102564
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0018 J	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 02:01	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:08	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:08	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:08	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:06	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-02 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102565
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 09:15 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	5 J	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	223	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	57.1	0.0334	0.200	1
01757	Magnesium	7439-95-4	19.6	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0022	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00080 J	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	6.4	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	25.8	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.22	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-02 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102565
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 09:15 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131781AA	06/27/2013 19:44	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131781AA	06/27/2013 19:44	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 12:52	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:10	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:10	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:10	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:01	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:01	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:01	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:14	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655901A	06/29/2013 12:34	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655901A	06/29/2013 12:34	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655901A	06/29/2013 12:34	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH ₃ D-1997	1	13182006201A	07/01/2013 20:50	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH ₃ B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-02-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102566
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 09:15 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0022	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 02:05	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:01	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:01	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:01	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:08	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-03 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102567
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 10:45 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	166	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	42.2	0.0334	0.200	1
01757	Magnesium	7439-95-4	14.8	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0012 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0057	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	3.2	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	11.1	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.72	0.12	0.40	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-03 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102567
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 10:45 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131781AA	06/27/2013 20:08	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131781AA	06/27/2013 20:08	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 13:00	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:14	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:14	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:14	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:13	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:13	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:13	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:16	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655901A	06/29/2013 13:45	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655901A	06/29/2013 13:45	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655901A	06/29/2013 13:45	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH ₃ D-1997	1	13182006201A	07/01/2013 20:55	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH ₃ B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-03-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102568
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 10:45 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00057 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00031 J	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 02:16	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:10	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:10	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:10	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:10	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-04 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102569
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 14:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	26	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	200	600	1
Reporting limits were raised due to interference from the sample matrix.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	269	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.0026 J	0.00076	0.0050	1
01750	Calcium	7440-70-2	75.4	0.0334	0.200	1
01757	Magnesium	7439-95-4	19.7	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.0011	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0142	0.00042	0.0020	1
06035	Lead	7439-92-1	0.123	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00042	0.00012	0.00040	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	11.7	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	4.9 J	1.5	5.0	5

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-04 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102569
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 14:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131781AA	06/27/2013 20:32	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131781AA	06/27/2013 20:32	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 13:09	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:17	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:17	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:17	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:15	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:15	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:15	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:18	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655901A	06/29/2013 14:01	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655901A	06/29/2013 14:01	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655901A	06/29/2013 14:01	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-04-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102570
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 14:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0045	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0064	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 02:20	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:12	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:12	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:12	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:12	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-05 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102571
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 09:55 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	100	300	1
Reporting limits were raised due to interference from the sample matrix.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	63.3	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	20.0	0.0334	0.200	1
01757	Magnesium	7439-95-4	3.26	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0072	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0045	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00013 J	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	1.5 J	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	13.7	1.5	5.0	5
	SM 4500-NH₃ D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.11 J	0.060	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-05 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102571
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 09:55 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG05

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131781AA	06/27/2013 20:56	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131781AA	06/27/2013 20:56	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 13:17	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:21	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:21	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:21	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:18	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:18	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:18	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:20	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655901A	06/29/2013 14:18	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655901A	06/29/2013 14:18	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655901A	06/29/2013 14:18	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 21:00	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-05-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102572
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 09:55 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0027	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0015	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 02:24	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:14	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:14	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:14	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:14	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-06 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102573
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 15:00 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	120 J	100	300	1
Reporting limits were raised due to interference from the sample matrix.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	42.4	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	10.6	0.0334	0.200	1
01757	Magnesium	7439-95-4	3.86	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0060	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0131	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00014 J	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	1.1 J	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	12.3	1.5	5.0	5
	SM 4500-NH₃ D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.22	0.060	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-06 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102573
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 15:00 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG06

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131791AA	06/28/2013 10:37	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131791AA	06/28/2013 10:37	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 13:34	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:25	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:25	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:25	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:20	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:20	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:20	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:22	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655901A	06/29/2013 14:34	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655901A	06/29/2013 14:34	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655901A	06/29/2013 14:34	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 21:06	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-06-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102574
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 15:00 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0050	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0059	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 02:28	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:16	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:16	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:16	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:16	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-07 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102575
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 08:45 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	105	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	37.1	0.0334	0.200	1
01757	Magnesium	7439-95-4	2.89	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0051	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0075	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00012 J	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	1.0 J	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	8.8	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.10 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-07 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102575
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 08:45 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131791AA	06/28/2013 11:01	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131791AA	06/28/2013 11:01	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 13:43	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:29	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:29	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:29	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:22	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:22	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:22	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:24	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655901A	06/29/2013 14:50	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655901A	06/29/2013 14:50	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655901A	06/29/2013 14:50	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH ₃ D-1997	1	13182006201A	07/01/2013 21:21	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH ₃ B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-07-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102576
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 08:45 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00055 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00024 J	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 02:31	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:17	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:17	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:17	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:23	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-08 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102577
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 10:40 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	1 J	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	7 J	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	16	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	0.8 J	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	282	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	73.9	0.0334	0.200	1
01757	Magnesium	7439-95-4	23.8	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0054	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00085 J	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	11.4	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	53.5	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.14 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-08 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102577
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 10:40 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131791AA	06/28/2013 11:26	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131791AA	06/28/2013 11:26	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 13:52	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:32	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:32	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:32	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:25	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:25	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:25	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:26	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655901A	06/29/2013 15:06	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655901A	06/29/2013 15:06	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655901A	06/29/2013 15:06	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH ₃ D-1997	1	13182006201A	07/01/2013 21:26	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH ₃ B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-08-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102578
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 10:40 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0040	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 02:35	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:19	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:19	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:19	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:26	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-09 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102579
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 16:15 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	2 J	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A	ug/l	ug/l	ug/l		
13022	Acetaldehyde	75-07-0	N.D.	100	300	1
Reporting limits were raised due to interference from the sample matrix.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO ₃	471-34-1	72.4	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	19.2	0.0334	0.200	1
01757	Magnesium	7439-95-4	5.96	0.0167	0.100	1
	SW-846 6020	mg/l	mg/l	mg/l		
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0121	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0131	0.000085	0.0010	1
	SW-846 7470A	mg/l	mg/l	mg/l		
00259	Mercury	7439-97-6	0.00011 J	0.000060	0.00020	1
Wet Chemistry	EPA 300.0	mg/l	mg/l	mg/l		
00224	Chloride	16887-00-6	2.8	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	14.3	1.5	5.0	5
	SM 4500-NH₃ D-1997	mg/l	mg/l	mg/l		
12679	Ammonia	7664-41-7	0.20	0.060	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-09 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102579
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 16:15 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG09

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131791AA	06/28/2013 11:50	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131791AA	06/28/2013 11:50	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 14:00	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:36	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:36	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:36	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:27	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:27	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:27	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:32	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655902A	06/30/2013 01:06	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655902A	06/30/2013 01:06	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655902A	06/30/2013 01:06	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 21:31	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-09-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102580
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 16:15 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0103	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0106	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l 0.000094 J	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 02:39	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:21	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:21	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:21	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:28	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-10 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102581
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	16 J	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	2 J	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A	ug/l	ug/l	ug/l		
13022	Acetaldehyde	75-07-0	110 J	100	300	1
Reporting limits were raised due to interference from the sample matrix.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	50.6	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	13.6	0.0334	0.200	1
01757	Magnesium	7439-95-4	4.02	0.0167	0.100	1
	SW-846 6020	mg/l	mg/l	mg/l		
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0011 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0978	0.000085	0.0010	1
	SW-846 7470A	mg/l	mg/l	mg/l		
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry	EPA 300.0	mg/l	mg/l	mg/l		
00224	Chloride	16887-00-6	1.8 J	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	8.2	1.5	5.0	5
	SM 4500-NH3 D-1997	mg/l	mg/l	mg/l		
12679	Ammonia	7664-41-7	0.77	0.060	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-10 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102581
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG10

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131791AA	06/28/2013 12:14	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131791AA	06/28/2013 12:14	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 14:09	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:40	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:40	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:40	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:30	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:30	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:30	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:34	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655902A	06/30/2013 01:54	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655902A	06/30/2013 01:54	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655902A	06/30/2013 01:54	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 21:36	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-10-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102582
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 11:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00070 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0507	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 02:44	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:23	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:23	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:23	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:30	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-11 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102583
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 09:45 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones SW-846 8315A						
13022	Acetaldehyde	75-07-0	50 J	40	120	1
Reporting limits were raised due to interference from the sample matrix.						
Metals SM 2340 B-1997						
06256	Total Hardness as CaCO ₃	471-34-1	121	0.033	0.20	1
SW-846 6010B						
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	30.7	0.0334	0.200	1
01757	Magnesium	7439-95-4	10.6	0.0167	0.100	1
SW-846 6020						
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0015 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0119	0.000085	0.0010	1
SW-846 7470A						
00259	Mercury	7439-97-6	0.00019 J	0.000060	0.00020	1
Wet Chemistry EPA 300.0						
00224	Chloride	16887-00-6	1.4 J	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	8.9	1.5	5.0	5
SM 4500-NH₃ D-1997						
12679	Ammonia	7664-41-7	0.34	0.060	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-11 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102583
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 09:45 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG11

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131791AA	06/28/2013 12:38	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131791AA	06/28/2013 12:38	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 14:17	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:51	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:51	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:51	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:39	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:39	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:39	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:36	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655902A	06/30/2013 02:43	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655902A	06/30/2013 02:43	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655902A	06/30/2013 02:43	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 21:41	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-11-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102584
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/18/2013 09:45 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00046 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00082 J	0.00085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 02:48	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:30	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:30	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:30	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:32	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-12 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102585
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 14:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	7 J	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A	ug/l	ug/l	ug/l		
13022	Acetaldehyde	75-07-0	60 J	40	120	1
Reporting limits were raised due to interference from the sample matrix.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO ₃	471-34-1	144	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	35.9	0.0334	0.200	1
01757	Magnesium	7439-95-4	13.2	0.0167	0.100	1
	SW-846 6020	mg/l	mg/l	mg/l		
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0032	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0206	0.000085	0.0010	1
	SW-846 7470A	mg/l	mg/l	mg/l		
00259	Mercury	7439-97-6	0.000091 J	0.000060	0.00020	1
Wet Chemistry	EPA 300.0	mg/l	mg/l	mg/l		
00224	Chloride	16887-00-6	3.9	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	11.3	1.5	5.0	5

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-12 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102585
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 14:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131791AA	06/28/2013 13:02	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131791AA	06/28/2013 13:02	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 14:26	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:55	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:55	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:55	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:41	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:41	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:41	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:38	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655902A	06/30/2013 02:59	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655902A	06/30/2013 02:59	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655902A	06/30/2013 02:59	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-12-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102586
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 14:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00059 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00081 J	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 02:52	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:32	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:32	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:32	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:34	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-13 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102587
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 08:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	3 J	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	1 J	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	350	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	86.7	0.0334	0.200	1
01757	Magnesium	7439-95-4	32.4	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0074	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0026	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	16.5	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	88.9	3.0	10.0	10
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.10 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-13 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102587
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 08:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131791AA	06/28/2013 13:26	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131791AA	06/28/2013 13:26	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 14:34	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 21:59	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 21:59	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 21:59	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:44	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:44	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:44	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:40	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655902B	06/30/2013 03:15	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655902B	06/30/2013 03:15	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655902B	07/02/2013 15:03	Christopher D Meeks	10
12679	Ammonia	SM 4500-NH ₃ D-1997	1	13182006202A	07/01/2013 22:06	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH ₃ B-1997	1	13182421902A	07/01/2013 17:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-13-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102588
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 08:30 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0070	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00018 J	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 03:03	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:33	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:33	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:33	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:36	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-14 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102589
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 13:55 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	379	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	127	0.0334	0.200	1
01757	Magnesium	7439-95-4	15.4	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0026	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0132	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000073 J	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	6.6	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	17.1	1.5	5.0	5

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial# Batch#	Analysis Date and Time	Analyst	Dilution Factor
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*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-14 Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102589
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 13:55 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTG14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131791AA	06/28/2013 13:50	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131791AA	06/28/2013 13:50	Linda C Pape	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131826256001	07/02/2013 08:40	Nina C Haller	1
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 22:03	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131795705002	06/30/2013 22:03	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131795705002	06/30/2013 22:03	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050004A	07/02/2013 13:03	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/02/2013 13:03	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/02/2013 13:03	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:42	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655902B	06/30/2013 04:04	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13180655902B	06/30/2013 04:04	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13180655902B	06/30/2013 04:04	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013GW-14-Z Groundwater
REM INVEST GW 6/13

LL Sample # WW 7102590
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 13:55 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00071 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00055 J	0.00085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 03:07	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:35	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:35	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:35	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:38	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: EB-061913-GW Blank Water
REM INVEST GW 6/13

LL Sample # WW 7102591
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 11:00 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTGE1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	0.33	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	0.131 J	0.0334	0.200	1
01757	Magnesium	7439-95-4	N.D.	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	N.D.	0.20	0.40	1
01504	Fluoride	16984-48-8	N.D.	0.080	0.10	1
00228	Sulfate	14808-79-8	N.D.	0.30	1.0	1
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.36	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: EB-061913-GW Blank Water
REM INVEST GW 6/13

LL Sample # WW 7102591
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 11:00 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTGE1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131791AA	06/28/2013 09:25	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131791AA	06/28/2013 09:25	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 14:43	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 23:05	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 23:05	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 23:05	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:04	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:04	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:04	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:44	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655902B	06/30/2013 04:20	Christopher D Meeks	1
01504	Fluoride	EPA 300.0	1	13180655902B	06/30/2013 04:20	Christopher D Meeks	1
00228	Sulfate	EPA 300.0	1	13180655902B	06/30/2013 04:20	Christopher D Meeks	1
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006202A	07/01/2013 21:46	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421902A	07/01/2013 17:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: EB-061913-GW-Z Blank Water
REM INVEST GW 6/13

LL Sample # WW 7102592
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/19/2013 11:00 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705002	06/30/2013 22:06	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:03	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:03	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:03	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:40	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705002	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: TB-062013-GW Blank Water
REM INVEST GW 6/13

LL Sample # WW 7102593
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 18:00 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTGTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131791AA	06/28/2013 09:49	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131791AA	06/28/2013 09:49	Linda C Pape	1

*=This limit was used in the evaluation of the final result

Sample Description: EB-062013-GW Blank Water
REM INVEST GW 6/13

LL Sample # WW 7102594
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 15:00 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTGE2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	0.21	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	0.0831 J	0.0334	0.200	1
01757	Magnesium	7439-95-4	N.D.	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	N.D.	0.20	0.40	1
01504	Fluoride	16984-48-8	N.D.	0.080	0.10	1
00228	Sulfate	14808-79-8	N.D.	0.30	1.0	1
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.10 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: EB-062013-GW Blank Water
REM INVEST GW 6/13

LL Sample # WW 7102594
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 15:00 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

MTGE2

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	T131791AA	06/28/2013 10:13	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T131791AA	06/28/2013 10:13	Linda C Pape	1
13022	Acetaldehyde	SW-846 8315A	1	131720021A	06/22/2013 14:51	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131720021A	06/21/2013 23:00	David V Hershey Jr	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 23:09	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 23:09	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 23:09	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:32	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:32	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:32	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713010	06/24/2013 09:46	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713010	06/23/2013 08:30	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13180655902B	06/30/2013 04:36	Christopher D Meeks	1
01504	Fluoride	EPA 300.0	1	13180655902B	06/30/2013 04:36	Christopher D Meeks	1
00228	Sulfate	EPA 300.0	1	13180655902B	06/30/2013 04:36	Christopher D Meeks	1
12679	Ammonia	SM 4500-NH ₃ D-1997	1	13182006202A	07/01/2013 22:27	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH ₃ B-1997	1	13182421902A	07/01/2013 17:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: EB-062013-GW-Z Blank Water
REM INVEST GW 6/13

LL Sample # WW 7102595
LL Group # 1398823
Account # 07032

Project Name: MTG - REM INVESTIGATION GW

Collected: 06/20/2013 15:00 by GG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/03/2013 13:43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131795705003	07/01/2013 03:11	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	131796050005A	07/01/2013 09:25	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131796050005A	07/01/2013 09:25	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050005A	07/01/2013 09:25	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713011	06/24/2013 10:42	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131795705003	06/30/2013 08:44	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050005	06/30/2013 08:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713011	06/23/2013 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/03/13 at 01:43 PM

Group Number: 1398823

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: T131781AA	Sample number(s): 7102555-7102557, 7102563, 7102565, 7102567, 7102569, 7102571								
Acetone	N.D.	6.	20	ug/l	79		35-181		
Benzene	N.D.	0.5	5	ug/l	99		77-121		
Carbon Tetrachloride	N.D.	1.	5	ug/l	111		65-137		
Chloroform	N.D.	0.8	5	ug/l	100		77-122		
Dichlorodifluoromethane	N.D.	2.	5	ug/l	99		35-122		
1,1-Dichloroethane	N.D.	1.	5	ug/l	97		79-120		
cis-1,2-Dichloroethene	N.D.	0.8	5	ug/l	101		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	5	ug/l	104		80-120		
Freon 113	N.D.	2.	10	ug/l	111		69-128		
Methylene Chloride	N.D.	2.	5	ug/l	104		84-118		
Tetrachloroethene	N.D.	0.8	5	ug/l	93		79-120		
Tetrahydrofuran	N.D.	4.	10	ug/l	113		52-156		
Toluene	N.D.	0.7	5	ug/l	96		79-120		
1,1,1-Trichloroethane	N.D.	0.8	5	ug/l	110		66-126		
Trichloroethene	N.D.	1.	5	ug/l	102		80-120		
Trichlorofluoromethane	N.D.	2.	5	ug/l	88		65-130		
Batch number: T131791AA	Sample number(s): 7102573, 7102575, 7102577, 7102579, 7102581, 7102583, 7102585, 7102587, 7102589, 7102591, 7102593-7102594								
Acetone	N.D.	6.	20	ug/l	123	142	35-181	14	30
Benzene	N.D.	0.5	5	ug/l	98	99	77-121	1	30
Carbon Tetrachloride	N.D.	1.	5	ug/l	112	111	65-137	1	30
Chloroform	N.D.	0.8	5	ug/l	104	102	77-122	2	30
Dichlorodifluoromethane	N.D.	2.	5	ug/l	103	102	35-122	0	30
1,1-Dichloroethane	N.D.	1.	5	ug/l	98	98	79-120	1	30
cis-1,2-Dichloroethene	N.D.	0.8	5	ug/l	100	102	80-120	3	30
trans-1,2-Dichloroethene	N.D.	0.8	5	ug/l	100	101	80-120	1	30
Freon 113	N.D.	2.	10	ug/l	105	102	69-128	3	30
Methylene Chloride	N.D.	2.	5	ug/l	103	102	84-118	0	30
Tetrachloroethene	N.D.	0.8	5	ug/l	91	94	79-120	3	30
Tetrahydrofuran	N.D.	4.	10	ug/l	83	70	52-156	18	30
Toluene	N.D.	0.7	5	ug/l	96	97	79-120	1	30
1,1,1-Trichloroethane	N.D.	0.8	5	ug/l	113	107	66-126	5	30
Trichloroethene	N.D.	1.	5	ug/l	100	98	80-120	1	30
Trichlorofluoromethane	N.D.	2.	5	ug/l	90	93	65-130	3	30
Batch number: 131720021A	Sample number(s): 7102555-7102557, 7102563, 7102565, 7102567, 7102569, 7102571, 7102573, 7102575, 7102577, 7102579, 7102581, 7102583, 7102585, 7102587, 7102591, 7102594								
Acetaldehyde	N.D.	20.	60	ug/l	93		56-123		
Batch number: 131725713010	Sample number(s): 7102555-								

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398823

Reported: 07/03/13 at 01:43 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Mercury	N.D.	0.00006	0.00020	mg/l	102		80-120		
Batch number: 131725713011	Sample number(s): 7102559-7102562, 7102563, 7102565, 7102566, 7102567, 7102568, 7102569, 7102571, 7102573, 7102575, 7102577, 7102580, 7102582, 7102584, 7102586, 7102588, 7102590, 7102592, 7102595								
Mercury	N.D.	0.00006	0.00020	mg/l	100		80-120		
Batch number: 131745705002	Sample number(s): 7102591, 7102594								
Cadmium	N.D.	0.00076	0.0050	mg/l	101		90-112		
Calcium	0.0499 J	0.0334	0.200	mg/l	106		90-110		
Magnesium	N.D.	0.0167	0.100	mg/l	104		90-110		
Batch number: 131795705002	Sample number(s): 7102555-7102558, 7102563, 7102565, 7102567, 7102569, 7102571, 7102573, 7102575, 7102577, 7102579, 7102581, 7102583, 7102585, 7102587, 7102589, 7102592								
Cadmium	N.D.	0.00076	0.0050	mg/l	96		90-112		
Calcium	N.D.	0.0334	0.200	mg/l	98		90-110		
Magnesium	N.D.	0.0167	0.100	mg/l	96		90-110		
Batch number: 131795705003	Sample number(s): 7102559-7102562, 7102564, 7102566, 7102568, 7102570, 7102572, 7102574, 7102576, 7102578, 7102580, 7102582, 7102584, 7102586, 7102588, 7102590, 7102595								
Cadmium	N.D.	0.00076	0.0050	mg/l	103		90-112		
Batch number: 131796050004A	Sample number(s): 7102555-7102558, 7102563, 7102565, 7102567, 7102569, 7102571, 7102573, 7102575, 7102577, 7102579, 7102581, 7102583, 7102585, 7102587, 7102589, 7102591, 7102594								
Antimony	N.D.	0.00034	0.0010	mg/l	102		80-120		
Arsenic	N.D.	0.00042	0.0020	mg/l	96		80-120		
Lead	N.D.	0.00008	0.0010	mg/l	101		90-115		
Batch number: 131796050005A	Sample number(s): 7102559-7102562, 7102564, 7102566, 7102568, 7102570, 7102572, 7102574, 7102576, 7102578, 7102580, 7102582, 7102584, 7102586, 7102588, 7102590, 7102592, 7102595								
Antimony	N.D.	0.00034	0.0010	mg/l	110		80-120		
Arsenic	N.D.	0.00042	0.0020	mg/l	99		80-120		
Lead	N.D.	0.00008	0.0010	mg/l	103		90-115		
Batch number: 13180655901A	Sample number(s): 7102555-7102556, 7102558, 7102563, 7102565, 7102567, 7102569, 7102571, 7102573, 7102575, 7102577								
Chloride	N.D.	0.20	0.40	mg/l	97		90-110		
Fluoride	N.D.	0.080	0.10	mg/l	98		90-110		
Sulfate	N.D.	0.30	1.0	mg/l	101		90-110		
Batch number: 13180655902A	Sample number(s): 7102579, 7102581, 7102583, 7102585								
Chloride	N.D.	0.20	0.40	mg/l	97		90-110		
Fluoride	N.D.	0.080	0.10	mg/l	99		90-110		
Sulfate	N.D.	0.30	1.0	mg/l	98		90-110		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398823

Reported: 07/03/13 at 01:43 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 13180655902B	Sample number(s): 7102587, 7102589, 7102591, 7102594								
Chloride	N.D.	0.20	0.40	mg/l	97		90-110		
Fluoride	N.D.	0.080	0.10	mg/l	99		90-110		
Sulfate	N.D.	0.30	1.0	mg/l	98		90-110		

Batch number: 13182006201A	Sample number(s): 7102555-7102558, 7102563, 7102565, 7102567, 7102571, 7102573, 7102575, 7102577, 7102579, 7102581, 7102583								
Ammonia	0.12	J	0.060	0.20	mg/l	98	80-120		

Batch number: 13182006202A	Sample number(s): 7102587, 7102591, 7102594								
Ammonia	0.12	J	0.060	0.20	mg/l	100	100	80-120	0 5

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: T131781AA	Sample number(s): 7102555-7102557, 7102563, 7102565, 7102567, 7102569, 7102571 UNSPK: 7102555								
Acetone	70	76	33-159	9	30				
Benzene	100	100	72-134	0	30				
Carbon Tetrachloride	119	119	72-135	0	30				
Chloroform	105	104	81-134	1	30				
Dichlorodifluoromethane	111	112	52-129	1	30				
1,1-Dichloroethane	102	100	84-129	1	30				
cis-1,2-Dichloroethene	103	102	80-141	1	30				
trans-1,2-Dichloroethene	109	107	81-142	1	30				
Freon 113	116	119	89-148	3	30				
Methylene Chloride	103	103	78-133	0	30				
Tetrachloroethene	97	97	80-128	0	30				
Tetrahydrofuran	100	102	43-164	2	30				
Toluene	100	99	80-125	2	30				
1,1,1-Trichloroethane	118	118	69-140	0	30				
Trichloroethene	104	103	88-133	1	30				
Trichlorofluoromethane	93	96	64-146	4	30				
Batch number: 131720021A	Sample number(s): 7102555-7102557, 7102563, 7102565, 7102567, 7102569, 7102571, 7102573, 7102575, 7102577, 7102579, 7102581, 7102583, 7102585, 7102587, 7102591, 7102594 UNSPK: 7102555								
Acetaldehyde	98	93	79-115	5	30				
Batch number: 131725713010	Sample number(s): 7102555-7102558, 7102563, 7102565, 7102567, 7102569, 7102571, 7102573, 7102575, 7102577, 7102579, 7102581, 7102583, 7102585, 7102587, 7102589, 7102591, 7102594 UNSPK: 7102555 BKG: 7102555								
Mercury	101	101	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 131725713011	Sample number(s): 7102559-7102562, 7102564, 7102566, 7102568, 7102570, 7102572, 7102574, 7102576, 7102578, 7102580, 7102582, 7102584, 7102586, 7102588, 7102590, 7102592, 7102595 UNSPK: 7102559 BKG:								

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398823

Reported: 07/03/13 at 01:43 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Mercury	7102559 100	101	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 131745705002	Sample number(s): 7102591, 7102594 UNSPK: P098192 BKG: P098192								
Cadmium	103	102	83-116	2	20	N.D.	N.D.	0 (1)	20
Calcium	126 (2)	137 (2)	81-118	1	20	43.5	43.2	1	20
Magnesium	123 (2)	128 (2)	75-125	1	20	13.0	13.0	0	20
Batch number: 131795705002	Sample number(s): 7102555- 7102558, 7102563, 7102565, 7102567, 7102569, 7102571, 7102573, 7102575, 7102577, 7102579, 7102581, 7102583, 7102585, 7102587, 7102589, 7102592 UNSPK: 7102555 BKG: 7102555								
Cadmium	95	96	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	116 (2)	106 (2)	81-118	1	20	58.7	60.9	4	20
Magnesium	110 (2)	102 (2)	75-125	1	20	20.6	21.4	4	20
Batch number: 131795705003	Sample number(s): 7102559- 7102562, 7102564, 7102566, 7102568, 7102570, 7102572, 7102574, 7102576, 7102578, 7102580, 7102582, 7102584, 7102586, 7102588, 7102590, 7102595 UNSPK: 7102559 BKG: 7102559								
Cadmium	102	101	83-116	0	20	N.D.	N.D.	0 (1)	20
Batch number: 131796050004A	Sample number(s): 7102555- 7102558, 7102563, 7102565, 7102567, 7102569, 7102571, 7102573, 7102575, 7102577, 7102579, 7102581, 7102583, 7102585, 7102587, 7102589, 7102591, 7102594 UNSPK: 7102555 BKG: 7102555								
Antimony	103	104	75-125	1	20	N.D.	N.D.	0 (1)	20
Arsenic	106	102	75-125	4	20	0.0017 J	0.0019 J	15 (1)	20
Lead	104	102	83-120	2	20	0.00037 J	0.00038 J	1 (1)	20
Batch number: 131796050005A	Sample number(s): 7102559- 7102562, 7102564, 7102566, 7102568, 7102570, 7102572, 7102574, 7102576, 7102578, 7102580, 7102582, 7102584, 7102586, 7102588, 7102590, 7102592, 7102595 UNSPK: 7102559 BKG: 7102559								
Antimony	97	100	75-125	3	20	N.D.	N.D.	0 (1)	20
Arsenic	108	113	75-125	4	20	0.0018 J	0.0018 J	0 (1)	20
Lead	104	105	83-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 13180655901A	Sample number(s): 7102555- 7102556, 7102558, 7102563, 7102565, 7102567, 7102569, 7102571, 7102573, 7102575, 7102577 UNSPK: 7102555 BKG: 7102555								
Chloride	88*	90-110				8.7	8.5	2 (1)	20
Fluoride	97	90-110				N.D.	N.D.	0 (1)	20
Sulfate	87*	90-110				25.3	24.8	2 (1)	20
Batch number: 13180655902A	Sample number(s): 7102579, 7102581, 7102583, 7102585 UNSPK: 7102579 BKG: 7102579								
Chloride	101	90-110				2.8	2.2	22* (1)	20
Fluoride	108	90-110				N.D.	N.D.	0 (1)	20
Sulfate	105	90-110				14.3	14.4	1 (1)	20
Batch number: 13180655902B	Sample number(s): 7102587, 7102589, 7102591, 7102594 UNSPK: 7102587 BKG: 7102587								
Chloride	104	90-110				16.5	16.6	0	20
Fluoride	106	90-110				N.D.	N.D.	0 (1)	20
Sulfate	114*	90-110				88.9	89.7	1	20

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398823

Reported: 07/03/13 at 01:43 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 13182006201A	Sample number(s): 7102555- 7102558,7102563,7102565,7102567,7102571,7102573,7102575,7102577,7102579,7102581, 7102583 UNSPK: 7102555 BKG: 7102555								
Ammonia	97	95	40-144	2	12	0.060 J	0.080 J	29* (1)	12
Batch number: 13182006202A	Sample number(s): 7102587,7102591,7102594 BKG: 7102587								
Ammonia						0.10 J	0.26	89* (1)	12

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles

Batch number: T131781AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7102555	106	104	100	98
7102556	103	100	99	102
7102557	102	101	101	102
7102563	106	103	101	97
7102565	106	103	100	98
7102567	105	103	103	101
7102569	106	103	102	101
7102571	107	102	101	102
Blank	104	106	99	98
LCS	101	102	98	100
MS	103	100	99	102
MSD	102	101	101	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: GC/MS Volatiles

Batch number: T131791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7102573	107	106	102	97
7102575	107	104	103	98
7102577	106	105	102	100
7102579	106	102	103	101
7102581	107	105	101	103
7102583	107	104	102	99
7102585	109	106	102	100
7102587	106	105	100	99
7102589	107	106	103	102
7102591	104	105	101	98
7102593	106	107	99	97
7102594	107	106	102	100

*- Outside of specification

**.-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398823

Reported: 07/03/13 at 01:43 PM

Surrogate Quality Control

Blank	105	105	103	97
LCS	105	104	102	102
LCSD	104	102	99	106
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Acetaldehyde

Batch number: 131720021A

Butyraldehyde

7102555	100
7102556	108
7102557	102
7102563	90
7102565	84
7102567	87
7102569	111
7102571	91
7102573	57
7102575	99
7102577	108
7102579	93
7102581	58
7102583	71
7102585	76
7102587	113
7102591	96
7102594	107
Blank	97
LCS	94
MS	108
MSD	102

Limits: 45-145

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

100

Cooler Temperature upon receipt: 07 °C
Container No.: 1

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to ~~Lancaster~~ laboratories. The yellow copy should be retained by the samplers.

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100

For Lancaster Laboratories Use Only

Group No.:	1398823	Sample Nos.:	7102555-95	Cooler No.:	C23630	25685
Acct:	07032	SF:	126063	SCR No.:	140904	
Cooler Temperature upon receipt:			0.1	°C		Container No.:

[illegible]

Cooler Temperature upon receipt: 0.7 °C
Container No.: 7

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

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For Lancaster Laboratories Use Only

Group No. 1298823 Sample Nos. 7102555-95 C23630 **25685**
 Acct: 07032 SF: 126063 SCR No.: 14904 Cooler No.: 07 °C Container No.:
 Cooler Temperature upon receipt:

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Copies: White copy should accompany samples to ~~Bangaster Laboratories~~. The yellow copy should be retained by the samplers.



Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 1298823 Sample No.: 7102555-95 Cooler No.: 25668
Acct: 07032 SF: 126063 SCR No.: 140904
Cooler Temperature upon receipt: 0.3 °C Container No.: 2

Facility Name: DuPont Montague				Project Manager: George Gregory				Analyses Required										Comments:
Facility Contact: Steve DeVries				Facility Contact Phone No.: 231-893-9263														Metals = Sb, As, Pb (6020); Cd (6010); Hg
Facility Address: DuPont Montague				Job No.: 9267-7720100C-WH06507756														
6270 Wilkes Road				Release No.:														
Montague MI 49437				PO Number: LBIO-66380														
Sampler(s):																		
Project Name: REM INVEST GW 6/13																		
Sample Identification		Date Collected	Time Collected	Matrix	Volume (ml)	Preserv	No.	Acetaldehyde (8315)	Cl- (300.0)	F- (300.0)	Metals	Ca, Mg (6010B)	NH3 (4500 NH3 B&C)	SO4 (300.0)	Hardness (SM18 2340 B)	Condition upon receipt:		
R10613-2013GW-01		6/18/13	1130	WW	250	HNO3	1				X	X			X	Infect		
R10613-2013GW-01				WW	1000	H2SO4	1						X					
R10613-2013GW-01				WW	250	None	1	X										
R10613-2013GW-01				WW	250	None	1		X	X								
R10613-2013GW-01-Z				WW	250	HNO3	1				X							
R10613-2013GW-01-D				WW	250	HNO3	1				X	X						
R10613-2013GW-01-D				WW	1000	H2SO4	1					X						
R10613-2013GW-01-D				WW	250	None	1	X										
R10613-2013GW-01-D				WW	250	None	1		X	X				X				
R10613-2013GW-01-Z-D				WW	250	HNO3	1				X							

Turnaround Time Requested (please circle):		Standard		RUSH		Number of days: 8	
Bottles Relinquished by:	Date	Time	Date	Time	Bottles Received by:	Date	Time
	6-13-13	0715				6/17/13	1400
Bottles Relinquished by:	Date	Time	Date	Time	Bottles Received by:	Date	Time
	6/20/13	1800					
Bottles Relinquished by:	Date	Time	Date	Time	Bottles Received by:	Date	Time
Bottles Relinquished by:	Date	Time	Date	Time	Bottles Received by:	Date	Time
						6/21/13	2905

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 1398823 Sample Nos.: 7102555-95

Acc't: 07032	SF: 126063	SCR No.: 140904	Cooler No.: 25669
--------------	------------	-----------------	-------------------

Cooler Temperature upon receipt: 0.5 °C
Container No.: 2[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

[illegible]Container No.: 3

Lancaster Laboratories, Inc.	2425 New Holland Pike	Lancaster, PA 17601	(717) 656-2300
------------------------------	-----------------------	---------------------	----------------

25 New Holland Pike

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Container No.: 4

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

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[illegible]

710255-95

Cooler No.: C23512 25675

Container No.: 4

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to ~~Lancaster Laboratories~~. The yellow copy should be retained by the samplers.

Cooler Temperature upon receipt: 0.6 °C

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Group No.: 1398823 Sample Nos.: 7102555-95 Cooler No.: C0838025677
Acct: 07032 SF: 126063 SCR No.: 140904 Container No.: 5
Cooler Temperature upon receipt: 1.7 °C

[illegible]

Cooler Temperature upon receipt: 17 °C

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

For Lancaster Laboratories Use Only

Group No.: <u>1298823</u>	Sample Nos.: <u>7102555-95</u>	SCR No.: <u>14904</u>	Cooler No.: <u>C18480</u>	25681
Acct: 07032	SF: 126063	0.3 °C	Container No.: <u>6</u>	
Cooler Temperature upon receipt:				

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Cooler Temperature upon receipt: 1.7 °C

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Analysis Request / Environmental Services Chain of Custody

1 of 1



For Lancaster Laboratories Use Only

Group No.: **1398823** Sample No.: **7102555-95** Cooler No.: **C18480** 25684
 Acc't: 07032 SF: 126063 SCR No.: 140904 Cooler Temperature upon receipt: **1.7** °C Container No.: **5**

Facility Name: DuPont Montague				Project Manager: George Gregory				Analyses Required										Comments:	
Facility Contact: Steve DeVries				Facility Contact Phone No.: 231-893-9263														Metals = Sb, As, Pb (6020); Cd (6010); Hg	
Facility Address: DuPont Montague				Job No.: 9267-7720100C-WH06507756															
6270 Wilkes Road				Release No.:															
Montague MI 49437				PO Number: LBIO-66380															
Sampler(s):																			
Project Name: REM INVEST GW 6/13																			
Sample Identification		Date Collected	Time Collected	Matrix	Volume (ml)	Preserv	No.	Acetaldehyde (8315)	Cl- (300.0)	F- (300.0)	Metals	Ca, Mg (6010B)	NH3 (4500 NH3 B&C)	SO4 (300.0)	Hardness (SM18 2340 B)	Condition upon receipt:			
EB-06	ZO 13-GW	6/24/13	1500	WW	250	HNO3	1				X	X			X	Direct			
EB-06	ZO 13-GW			WW	1000	H2SO4	1						X						
EB-06	ZO 13-GW			WW	250	None	1	X											
EB-06	ZO 13-GW			WW	250	None	1		X	X				X					
EB-06	ZO 13-GW-Z			WW	250	HNO3	1				X								
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>																			
Bottles Relinquished by:				Date	6-13-13	Time	0804	Bottles Received by:				Date	6/17/13	Time	1400				
Bottles Relinquished by:				Date	6/24/13	Time	1900	Bottles Received by:				Date		Time					
Bottles Relinquished by:				Date		Time		Bottles Received by:				Date		Time					
Bottles Relinquished by:				Date		Time		Bottles Received by:				Date	6/24/13	Time	0905				

Environmental Sample Administration
Receipt Documentation Log

Grp # 1398823

Client/Project: Dupont MontagueShipping Container Sealed: YES NODate of Receipt: 6/21/13Custody Seal Present *: YES NOTime of Receipt: 0905

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 50-1Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	0.7	TB	WI	Y	L	
2		0.5					
3		0.7					
4		0.6					
5		1.7					
6		0.3					

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Received MS + MSD ^{Containers} ~~vials~~ for R10613-2013GW-01
missing 3 vials for ~~R10613-2013GW-06~~ ^{BLE 6/21/13} found in
③ missing 3 vials for R10613-2013GW-09 different cooler
CE 6/21/13

Unpacker Signature/Emp#: CCisher 3647Date/Time: 6/21/13 1106

Environmental Sample Administration
Receipt Documentation Log

Grp # 1398823

Client/Project: Dupont MontagueShipping Container Sealed: YES NODate of Receipt: 6/21/13Custody Seal Present *: YES NOTime of Receipt: 0905* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 50-1Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	0.3	TB	WI	Y	L	
2	↓	0.4	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: CC Shl 3647 Date/Time: 6/21/13 1106

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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