



**Reno Office**  
815 Maestro Dr.  
Reno, NV 89511  
Ph: 775.829.2245  
Fax: 775.829.2213

**Las Vegas Office**  
6280 So. Valley View Blvd.  
Suite 604  
Las Vegas, NV 89118  
Ph: 702.260.4961  
Fax: 702.260.4968

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# RESULTS OF PHASE II ENVIRONMENTAL SITE ASSESSMENT (ESA) ACTIVITIES

**PPG Industries**  
**800 North Hwy 395**  
**Cartago, CA 93526**

*Prepared for:*

***BEC Environmental, Inc.***  
***7660 West Sahara Ave., Suite 150***  
***Las Vegas, NV 89117***

*January 15, 2014*

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## 1. INTRODUCTION

McGinley and Associates, Inc. (MGA) has prepared this report describing Phase II Environmental Site Assessment (ESA) activities conducted at the former Pittsburgh Plate Glass Industries (PPG) Bartlett Plant, located at 800 North Hwy 395 in Cartago, California. The site location is shown in **Figure 1**.

## 2. OBJECTIVES

The objectives of the Phase II ESA activities were to assess recognized environmental conditions (RECs) identified during the previous Phase I ESA conducted by BEC Environmental (BEC). The RECs are as follows:

- Suspected asbestos-containing building materials (ACBM) and lead based paint;
- Potential underground storage tank (UST) located on the south side of the fabricating building; and
- Numerous unlabeled 55-gallon drums located in the southern portion of the site, with visible soil staining proximal to the drums.

## 3. SCOPE OF SERVICES

The Phase II ESA was conducted in general accordance with MGA's proposal dated September 26, 2013, and BEC's Sampling and Analysis Plan (SAP), dated June, 2013. The scope of services included the following:

- Conducting asbestos and lead based paint (LBP) assessment of existing structures;
- Preparing a site specific health and safety plan (HASP);
- Coordinating utility clearance at soil boring locations;
- Conducting ground penetrating radar (GPR) survey to locate USTs on the subject property;
- Advancing four direct-push (GeoProbe™) borings to a minimum of 20 feet below ground surface (fbgs);
- Screening soil samples for volatile organic compounds (VOCs) using a photo-ionization detector (PID);
- Collecting soil samples from each boring;
- Analytical testing of soil samples; and
- Preparing this report.

## 4. BACKGROUND

The subject property is located within the NE ¼ of the NE ¼ of Section 12, Township 17S, Range 36E M.D.M, at 800 North Hwy 395 in Cartago, CA (Site), approximately 10 miles south of Lone Pine, CA, being further described as Assessor's Parcel Number (APN) 029-100-63. The property is comprised of a single 99.95 acre parcel, of which, approximately 10 acres was the focus of this assessment. The site is located on the easterly slope of the Sierra Nevada Mountains, being just west



of the Owens Lake remnant (**Figure 1**). Topography at the site slopes easterly at an approximate five percent grade.

PPG utilized the site as a salt extraction facility until 1958. The brine was pumped onto the nearby lake bed and a salt slurry was formed which was diverted into evaporation ponds from which the salts were processed to form soda ash. The soda ash product was shipped to the PPG glass manufacturing facility in Pittsburgh, Pennsylvania (BEC, 2013).

## 5. ASBESTOS AND LEAD BASED PAINT SURVEY

Macrotec Consulting, LLC, of Las Vegas, Nevada, conducted an asbestos and LBP survey at the subject site on October 12, 2013. The results of the assessment are presented in their report dated October 31, 2013. A copy of the report is provided in **Appendix A**. The following recommendations were made in the report:

- Removal of all ACBM by a licensed asbestos abatement contractor, to be overseen by a certified asbestos consultant;
- Stabilization and/or removal of all regulated LBP containing materials by a California licensed lead abatement contractor; and,
- Completing a post asbestos and lead site restoration inspection, to be conducted by a certified asbestos and lead consultant.

In addition to the above discussed asbestos survey, MGA observed apparent ACBM (piping) located throughout the southeastern portion of the property.

## 6. PHASE II ESA ACTIVITIES

The Phase II ESA activities were conducted on November 5 through 7, 2013. Four soil borings (SB-1 through SB-4) were advanced on the subject property and five surface soil samples (SS-1 through SS-5) were collected. A site map showing soil boring and surface sample locations is provided as **Figure 2**. Drilling was conducted by Cascade Drilling, LP, of Rancho Cordova, CA. A MGA representative was onsite to oversee field activities and collect soil samples. Special care was taken to avoid ACBM and LBP identified in Macrotec's Asbestos and Lead Based Paint Survey dated October 31, 2013. The ESA activities are described in the following sections.

### 6.1 Pre-field Activities

Prior to site assessment activities, Underground Service Alert (USA call-before-you-dig) was notified and a private utility location service (GPRS of Las Vegas, NV) was contracted to assess for the presence of underground utilities in the areas where drilling was to be conducted. A site-specific HASP was prepared, reviewed, and signed by all onsite personnel prior to conducting site assessment activities.

### 6.2 UST Locating

Prior to drilling activities, a GPR survey was conducted by GPRS of Las Vegas, NV. The survey was conducted on the south side of the fabrication building (**Figure 2**), which had been previously identified as a potential UST location during BEC's Phase I ESA investigation. A visual inspection of the area yielded evidence of several UST system components which included a UST fill port located at grade, and vent lines located on the southwest side of the fabrication building. The GPR was able to identify a subsurface anomaly directly beneath the apparent UST fill port, indicating the

location and approximate lateral dimensions of the UST. The approximate lateral dimensions were measured to be three feet by four feet. Following UST location, the fill port was opened and a dip stick was placed into the UST to assess residual fuel levels inside the tank. No liquid was present in the tank at the time of assessment. The length of the dipstick from the top of the fill port to the end of the stick was approximately six feet. The top of the tank was approximately one foot below grade. Based on these measurements, the tank is estimated to have held approximately 500 gallons of fluid. The fill port lid was placed back onto the port and secured prior to commencing drilling operations. The location of the fill port is indicated on **Figure 3**. The approximate tank location in relation to borings, appurtenances, and the fabrication building are provided on **Figure 3**. GPRS's report of findings is provided in **Appendix B**.

### 6.3 Advancement of Soil Borings

Borings SB-1 through SB-4 were advanced using a GeoProbe™ 8040DT direct push drill rig, equipped with hollow stem auger (HSA) capabilities. Direct push drilling was attempted at borings SB-1 and SB-2. Refusal was encountered at both locations at approximately seven fbgs; subsequently, the drill rig components were changed to HSA, utilizing a six inch diameter auger fitted with a pilot bit. Boring SB-1, located proximal to the UST, was advanced to approximately 32 fbgs where refusal was encountered and the boring terminated. Field screening (as described in BEC's SAP) of soils indicated hydrocarbon contamination commencing at approximately 15 fbgs and continuing to approximately 32 fbgs where the boring was terminated. Boring SB-2, located topographically down gradient of SB-1, was advanced to 22 fbgs. Field screening of soils collected from the boring did not indicate hydrocarbon contamination, however, a slight hydrocarbon odor was noted at approximately 10 fbgs. SB-2 was advanced past 20 feet in an attempt to assess for potential horizontal down gradient migration of apparent hydrocarbon contamination at greater depths. Refusal was encountered at approximately 22 fbgs and the boring was terminated.

Two additional borings (SB-3 and SB-4) were advanced inside the fabrication building to assess for sub-slab soil contamination proximal to apparent hydrocarbon stained concrete, where visual inspection indicated surface staining. Borings SB-3 and SB-4 were advanced utilizing direct push drilling technology. Field screening did not indicate the presence of hydrocarbons or VOCs, subsequently, the borings were terminated at approximately five fbgs.

Decontaminated down hole equipment was used at each boring location. Groundwater was not encountered in any of the borings; however, based on site topography and water levels in the Owens Lake drainage, groundwater is estimated to be approximately 80 to 90 fbgs in the area where borings were advanced. Soil boring logs are provided in **Appendix C**.

### 6.4 Soil Sampling

Soil samples were collected from sub-surface locations and surface locations at the site. Sub-surface samples were collected from soil cores obtained using a hollow stem auger drilling technique with a split spoon sampling device and a direct push drilling technique using a continuous core sampler. Soil boring and surface sample locations are depicted on **Figure 2**. The following sections describe sampling activities conducted at the site in greater detail.

#### 6.4.1 Sub-Surface Soil Cores

Soil cores were collected from borings SB-1 and SB-2 at five foot intervals utilizing a split spoon sampling device equipped with 1-1/2 inch diameter stainless steel sample sleeves, and driving the split spoon sampler into undisturbed soil. As discussed in Section 6.3, advancement of a continuous core sampling device via direct push drilling equipment was not possible due to subsurface geologic conditions encountered at boring locations SB-1 and SB-2. Continuous soil cores were collected

from borings SB-3 and SB-4 by placing a polyethylene sleeve inside the metal drive rod and advancing the rod into undisturbed soil. All soil cores were screened for VOCs using a PID and the soils were classified in accordance with the Unified Soil Classification System (USCS). Samples were collected from borings SB-3 and SB-4 at approximately five and four fbg, respectively (See **Appendix C**). All samples were collected from the soil cores in accordance with the methodology described in Section 6.4.3.

#### **6.4.2 Surface Soil Samples**

Surface soil samples were collected at select locations based on potential contaminant source locations (drums), visible soil staining, and site topography. Samples were collected from depths of zero to one-half fbg. Surface sample SS-1 was collected from soils located just down gradient of several 55-gallon metal drums (**Figure 2**) as identified in the Phase I ESA conducted by BEC. It should be noted that three of the drums contained apparent liquid; however, due to safety concerns, the drums were not opened. Surface sample SS-2 was collected from a potential contaminant collection area proximal to the structure identified in the Phase I ESA as the collapsed building (**Figure 2**). Surface sample SS-3 was collected in a potential contaminant collection area proximal to, and topographically down gradient of the loading dock located at the southeast side of the fabrication building (**Figure 2**). Surface sample SS-4 was collected in a potential contaminant collection area topographically down gradient of several empty 55-gallon metal drums. Surface sample SS-5 was collected from a location proximal to apparent hydrocarbon soil staining. Surface sample SS-5 was selected as a background sample for metals as it was located in a relatively undisturbed location, away from site access roads and building facilities.

#### **6.4.3 Sampling Methodology**

At each soil sample location, one of two sampling methods was utilized. Samples to be analyzed for VOCs and total petroleum hydrocarbons, gasoline range organics (TPH-GRO) were collected utilizing a sub-coring tool (En Core Sampler). The En Core Sampler was equipped with pre-packaged sample capsule, advanced into undisturbed soil or the soil core, extracted, and sealed pursuant to manufacturer recommendations (See **Appendix D**). Sample capsules were placed in manufacturer provided sample bags, labeled, and placed on ice in a cooler pending delivery to laboratory for analysis. Samples to be analyzed for TPH, diesel and oil range organics (DRO and ORO) and metals, were collected by placing soil into a laboratory provided four ounce glass jar, sealed with a Teflon lid, labeled, and placed on ice in a cooler pending delivery to the laboratory for analysis. Surface soil samples to be analyzed for TPH-DRO, TPH-ORO, and Resource Conservation and Recovery Act (RCRA) 8 metals were homogenized in a decontaminated stainless steel bowl, using a trowel prior to placing the sample in the glass sample container. Sample locations were surveyed utilizing a Trimble Geo XH Global Positioning System (GPS) device. The soil sample identification scheme is provided in **Appendix E**.

### **6.5 Analytical Testing**

Collected samples were delivered under chain-of-custody protocol to Advanced Technology Laboratories (ATL), a California-certified laboratory for analysis. The soil samples were analyzed for TPH-GRO, TPH-DRO, and TPH-ORO using EPA Method SW8015B, VOCs by EPA Method SW8260B, Mercury by EPA Method 7471A, and RCRA 7 Metals by EPA Method 6010B. Laboratory reports and chain of custody documentation for the sub-surface and surface soil samples are provided in **Appendices F** and **G**, respectively.

## 6.6 Analytical Results

### 6.6.1 Sub-Surface Soil Samples

Analytical results for sub-surface soil samples are summarized in **Table 1** and **Figure 4**. Detectable concentrations of hydrocarbons were reported in all of the samples collected from soil boring SB-1, located proximal to the UST. TPH-GRO concentrations up to 2,100 mg/Kg (20 fbgs), TPH-DRO concentrations up to 1,100 mg/Kg (25 fbgs), and TPH-ORO concentrations up to 22 mg/Kg (25 fbgs) were reported in samples collected from boring SB-1. No hydrocarbons were detected above the laboratory practical quantitation limit (PQL) in borings SB-2, SB-3, and SB-4.

Detectable concentrations of VOCs were reported in samples collected from boring SB-1 between 15 and 30 fbgs, and included; 1,2,4-Trimethylbenzene concentrations up to 130,000 µg/Kg (25 fbgs), 1,3,5-Trimethylbenzene concentrations up to 48,000 µg/Kg (15 fbgs), 4-Isopropyltoluene concentrations up to 1,300 µg/Kg (15 fbgs), ethylbenzene concentrations up to 44,000 µg/Kg (25 fbgs), toluene concentrations up to 67,000 µg/Kg (25 fbgs), isopropylbenzene concentrations up to 5,200 µg/Kg (25 fbgs), total xylenes concentrations up to 286,000 µg/Kg (25 fbgs), naphthalene concentrations up to 28,000 µg/Kg (15 fbgs), n-butylbenzene concentrations up to 6,100 µg/Kg (25 fbgs), n-propylbenzene concentrations up to 21,000 µg/Kg (25 fbgs), and sec-butylbenzene concentrations up to 1,400 µg/Kg (15 fbgs). It should be noted that reporting limits were elevated for several VOC compounds for samples collected from boring SB-1.

Detectable concentrations of arsenic, barium, chromium, and lead were reported in all of the sub-surface soil samples collected, and are summarized below:

- arsenic concentrations up to 9.9 mg/Kg (SB-2 @ 20 fbgs);
- barium concentrations up to 120 mg/Kg (SB-2 @ 15 fbgs);
- chromium concentrations up to 8.4 mg/Kg (SB-2 @ 15 fbgs); and,
- lead concentrations up to 17 mg/Kg (SB-1 @ one fbgs).

Cadmium, selenium, silver, and mercury were not detected above laboratory PQLs in any of the sub-surface soil samples collected.

### 6.6.2 Surface Soil Samples

Analytical results for surface soil samples are summarized in **Table 2** and **Figure 5**. Detectable concentrations of hydrocarbons in the diesel and oil range organics were reported in samples SS-1, SS-2, SS-3, and SS-5 (background sample). TPH-DRO concentrations ranged from 18 mg/Kg (SS-3) to 11,000 mg/Kg (SS-1). TPH-ORO concentrations ranged from 28 mg/Kg (SS-3) to 21,000 mg/Kg (SS-1). No hydrocarbons were detected above the laboratory practical quantitation limit (PQL) in sample SS-4.

No detectable concentrations of VOCs above laboratory PQLs were reported in any of the surface soil samples collected.

Detectable concentrations of arsenic, barium, chromium, and lead were reported in all of the sub-surface soil samples collected, and are summarized below:

- arsenic concentrations up to 21 mg/Kg (SS-1);
- barium concentrations up to 40 mg/Kg (SS-5);
- chromium concentrations up to 2.5 mg/Kg (SS-2); and,
- lead concentrations up to 22 mg/Kg (SS-1).

Cadmium, selenium, silver, and mercury were not detected above laboratory PQLs in any of the surface soil samples collected.

## 6.7 Environmental Screening Levels for Soil

Pursuant to the California State Water Resources Control Board (CWRCB) Leaking Underground Fuel Tank (LUFT) Guidance Manual (2012) recommendations, analytical results for the soil samples collected at the site were compared with the CWRCB San Francisco Bay Region's (SFBR) Environmental Screening Levels (ESLs). SFBR ESLs corresponding to detected analytes are provided in **Tables 1** and **2**. In addition, **Tables 1** and **2** include Environmental Protection Agency (EPA) Region 9 Maximum Contaminant Level (MCL) Based Soil Screening Levels (SSLs) for reference. The following sections discuss soil sample analytical results with respect to SFBR ESLs.

### 6.7.1 Sub-Surface Soil Samples

Concentrations of TPH-GRO, TPH-DRO, ethylbenzene, toluene, total xylenes, and naphthalene were reported to be above the SFBR ESLs in samples collected from soil boring SB-1, between 15 and 30 fbgs. Specifically:

- concentrations of TPH-GRO exceeding SFBR ESLs ranged from 1,400 mg/Kg (30 fbgs) to 2,100 mg/Kg (20 fbgs);
- concentrations of TPH-DRO exceeding SFBR ESL ranged from 120 mg/Kg (30 fbgs) to 1,100 mg/Kg (25 fbgs);
- concentrations of ethylbenzene exceeding SFBR ESL ranged from 15,000 µg/Kg (20 fbgs) to 44,000 µg/Kg (25 fbgs);
- concentrations of toluene exceeding SFBR ESL ranged from 15,000 µg/Kg (20 fbgs) to 67,000 µg/Kg (25 fbgs);
- concentrations of total xylenes exceeding SFBR ESL ranged from 60,200 µg/Kg (15 fbgs) to 286,000 µg/Kg (25 fbgs);
- concentrations of naphthalene exceeding SFBR ESL ranged from 16,000 µg/Kg (20 fbgs) to 28,000 µg/Kg (15 fbgs);

Concentrations of arsenic were reported above the SFBR ESL in all of the subsurface soil samples collected at the site, ranging from 2.1 mg/Kg (SB1-20) to 9.9 (SB2-20). No concentrations of TPH or VOCs were reported above SFBR ESLs in samples collected from soil borings SB-2, SB-3, or SB-4.

### 6.7.2 Surface Soil Samples

Concentrations of TPH-DRO (11,000 mg/Kg) and TPH-ORO (21,000 mg/Kg) were reported to be above the SFBR ESLs in the sample collected from surface sample location SS1. Concentrations of arsenic were reported above the SFBR ESL in all of the surface soil samples collected, ranging from 2.3 mg/Kg (SS4) to 21 mg/Kg (SS1). No TPH or VOCs were reported above SFBR ESLs in samples collected from surface sample locations SS2, SS3, SS4, or SS5.

## 7. SUMMARY

The following is a summary of Phase II ESA activities and findings:

- A LPB and ACBM inspection was conducted on the property by Macrotec Consulting, LLC of Las Vegas, NV. LPB and ACBM were identified at several locations throughout the property (see report in **Appendix A**).
- A UST was located by visual inspection of the area indicated in the Phase I ESA, and by using GPR to identify approximate tank extents. The tank fill port location is shown in **Figure 2**. The tank location with respect to assessment borings, tank appurtenances, and the fabrication building is provided in **Figure 3**. A report of the GPR findings is provided in

### Appendix B.

- Two HSA soil borings (SB-1 and SB-2) were advanced proximal to, and down gradient of the UST. The boring locations are shown in **Figure 2**;
- Two direct-push soil borings (SB-3 and SB-4) were advanced inside the fabrication building proximal to apparent hydrocarbon stained concrete. The boring locations are shown on **Figure 2**;
- Representative soil samples were collected from each boring. The analytical results for the soil samples are summarized in **Table 1** and **Figure 4**. Detectable concentrations of hydrocarbons were reported above the SFBR ESLs in samples collected from boring SB-1 between 15 and 30 fbs.
- Five surface soil samples (SS-1 through SS-5) were collected at select locations throughout the site. The surface soil locations are shown on **Figure 2**;
- Representative soil samples were collected from each surface sample location. The analytical results for the soil samples are summarized in **Table 2** and **Figure 5**. Detectable concentrations of TPH were reported above SFBR ESLs from sample location SS-1.
- Several reported concentrations of VOCs were noted above SFBR ESLs in samples collected from boring SB-1.
- Arsenic concentrations above SFBR ESLs were reported in all of the soil samples collected at the site, including SS-5 which is considered the background sample location for metals.

## 8. DISCUSSION AND CONCLUSIONS

Detectable concentrations of TPH were reported above the SFBR ESLs in samples collected from boring SB-1 and the surface soil sample collected from sample location SS-1. Detectable concentrations of VOCs were reported above SFBR ESLs in samples collected from boring SB-1. Concentrations of arsenic were reported above the SFBR ESL in all of the soil samples collected at the site.

Due to encountering refusal at boring SB-1 (32 fbs), the vertical extent of the contamination is not known at this time. Decreasing concentrations of contaminants between 25 and 30 fbs at this location, in addition to encountering refusal at 32 fbs, indicate that further vertical migration may be limited and is not anticipated to have impacted groundwater. Based on the size of the tank and physical properties of petroleum flux through soil (2 to 3 times that of water), in addition to the lack of detectable concentrations of hydrocarbons in samples collected from boring SB-2, it is anticipated that the lateral extent of hydrocarbon contamination resulting from past releases from the UST is limited to less than 15 radial feet. Although no TPH was reported in samples collected from SB-1 at depths between zero and 10 fbs, it is suspected that soil contamination is present proximal to the tank, in soils located near the apparent tank leak.

Visual field investigation proximal to the surface soil sample SS-1 indicated that hydrocarbon impacts at this location have a lateral extent of approximately 225 square feet and a vertical extent of approximately one foot. Three of the 55 gallon drums located proximal to the sample location had apparent liquid contents which were unable to be identified.

Based on site history and sample analytical results, arsenic appears to occur naturally at the site. With exception to the soil sample collected at surface soil sample location SS-1, arsenic concentrations across the site are similar in concentration to the background sample collected at SS-5.

## 9. REGULATORY REPORTING

Upon receipt of analytical results, and in accordance with the California Health and Safety Code 25295, MGA reported the release to Inyo County Environmental Health Services (ICEHS); providing analytical data and site information at their request. As the release is not anticipated to affect ground or surface water, the California Regional Water Quality Control Board was not notified. ICEHS UST removal requirements are included in **Appendix H**.

## 10. RECOMMENDATIONS

We have the following recommendations:

- Provide a copy of this report to the ICEHS;
- The UST should be removed. During UST removal, the UST excavation should be expanded laterally and vertically to remove impacted soil in the source area;
- Excavate impacted soil at locations where surficial staining was observed;
- Prior to commencing with UST removal and soil excavation, a work plan should be prepared and submitted to the ICEHS;
- Removal and proper disposal of 55-gallon drums including contents;
- Removal and proper disposal of ACBM and LPB pursuant to the recommendations provided in Macrotec's Asbestos and Lead Based Paint Survey report; and,
- Conduct additional assessment to define extent of residual impacted soil that is left in place following excavation activities. Conduct a risk-based assessment for residual impacted material to support case closure request.

## 11. LIMITATIONS

The conclusions presented herein are based on analytical data, field measurements and observations, and field survey data. MGA makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. The results reported herein are applicable to the time the sampling occurred. Changes in site conditions may occur as a result of rainfall, snowmelt, water usage, or other factors.

It should be recognized that definition and evaluation of environmental conditions is a difficult and inexact science. Judgments and opinions leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including additional environmental investigations, can tend to reduce the inherent uncertainties associated with such studies. The geologic and hydraulic conditions at this site are complex and difficult to fully understand given the limited amount of available data. Additional information not found or unavailable to MGA at the time of writing this report may result in a modification to the conclusions and recommendations contained herein.

The presentation of data in plots presented herein is intended for the purpose of the visualization of environmental conditions. A greater degree of spatial and temporal data density may result in a more accurate representation of environmental conditions. Although such data visualization techniques may aid in providing a conceptual understanding of environmental conditions, such presentations are not intended to completely depict environmental conditions.

This report is not a legal opinion. The services performed by MGA have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.

The use of the word "certify" in this document constitutes an expression of professional opinion regarding those facts or findings which are the subject of the certification and does not constitute a warranty or guarantee, either expressed or implied.



## 12. CLOSING

MGA trusts the information provided herein satisfies your requirements. Should you have any questions please contact Brett Bottenberg at (702) 260-4961.

Respectfully submitted,

**McGinley and Associates, Inc.**



Justin Fike  
Staff Hydrogeologist, CEM

Reviewed by:



Tracy Johnston, California P.E. #64731, Exp. 6/15  
Project Manager

TABLE 1.	Screening Levels			Sample ID													
SUMMARY OF SUB-SURFACE SOIL ANALYTICAL RESULTS	EPA Region 9 MCL Based SSL	CWQCB-SFBR ESLs <sup>1</sup>	CWQCB-SFBR ESLs <sup>2</sup>	SB1-S-1	SB1-S-5	SB1-S-10	SB1-S-15	SB1-S-20	SB1-S-25	SB1-S-30	SB2-S-1	SB2-S-5	SB2-S-10	SB2-S-15	SB2-S-20	SB3-S-5	SB4-S-4
<i>Hydrocarbons (mg/kg)</i>																	
TPH-GRO	-	500	1,000	<1.1	<1.1	<0.94	<b>1,500</b>	<b>2,100</b>	<b>1,900</b>	<b>1,400</b>	<0.95	<0.98	<1.0	<1.0	<0.90	<0.84	<0.84
TPH-DRO	-	110	110	26	11	29	43	<b>600</b>	<b>1,100</b>	<b>120</b>	<10	<10	<10	<10	<10	<10	<9.9
TPH-ORO	-	500	1,000	20	<9.9	11	<10	13	22	12	<10	<10	<10	<10	<10	<10	<9.9
<i>Volatile Organic Compounds (µg/kg)</i>																	
1,2,4-Trimethylbenzene	-	-	-	<5.3	<5.8	<5.8	20,000	100,000	130,000	110,000	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
1,3,5-Trimethylbenzene	-	-	-	<5.3	<5.8	<5.8	48,000	30,000	37,000	34,000	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
4-Isopropyltoluene	-	-	-	<5.3	<5.8	<5.8	1,300	<2,300	<2,300	<2,300	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
Benzene	2.6	1.2	1.2	<5.3	<5.8	<5.8	<890	<2,300	<2,300	<2,300	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
Ethylbenzene	780	4.7	4.7	<5.3	<5.8	<5.8	<890	<b>15,000</b>	<b>44,000</b>	<b>26,000</b>	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
Toluene	690	9.3	9.3	<5.3	<5.8	<5.8	<890	<b>15,000</b>	<b>67,000</b>	<b>26,000</b>	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
Isopropylbenzene	-	-	-	<5.3	<5.8	<5.8	<890	2,600	5,200	3,500	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
m,p-Xylene	-	-	-	<11	<12	<12	3,200	160,000	210,000	130,000	<10	<10	<10	<9.9	<9.1	<8.2	<9.3
o-Xylene	-	-	-	<5.3	<5.8	<5.8	57,000	69,000	76,000	54,000	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
Total Xylenes	9,800	11	11	<16.3	<17.8	<17.8	<b>60,200</b>	<b>229,000</b>	<b>286,000</b>	<b>184,000</b>	<15	<15.2	<15.1	<14.9	<13.7	<12.3	<13.9
Napthalene	-	4.8	4.8	<5.3	<5.8	<5.8	<b>28,000</b>	<b>16,000</b>	<b>17,000</b>	<b>20,000</b>	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
n-Butylbenzene	-	-	-	<5.3	<5.8	<5.8	<890	4,700	6,100	6,000	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
n-Propylbenzene	-	-	-	<5.3	<5.8	<5.8	<890	8,300	21,000	16,000	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
sec-Butylbenzene	-	-	-	<5.3	<5.8	<5.8	1,400	<2,300	<2,300	<2,300	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
tert-Butylbenzene	-	-	-	<5.3	<5.8	<5.8	<890	<2,300	<2,300	<2,300	<5.0	<5.2	<5.1	<5.0	<4.6	<4.1	<4.6
<i>Metals (mg/kg)</i>																	
Arsenic (inorganic)	0.29	1.6	1.6	<b>4.3</b>	<b>2.6</b>	<b>4.0</b>	<b>3.7</b>	<b>2.1</b>	<b>8.2</b>	<b>4.8</b>	<b>3.1</b>	<b>3.9</b>	<b>5.8</b>	<b>4.2</b>	<b>9.9</b>	<b>3.9</b>	<b>3.3</b>
Barium	82	1,500	5,000	29	24	45	36	58	34	38	35	31	54	120	69	22	28
Cadmium	-	12	1,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	180,000	2,500	5,000	1.80	1.10	2.10	<1.0	1.1	2.0	2.9	1.5	5.7	1.8	8.4	2.6	2.0	1.2
Lead	14	320	320	17.00	3.30	5.40	8.5	4.7	9.7	9.1	3.2	7.1	3.6	<1.0	3.7	3.1	1.5
Selenium	0.26	10	5,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	-	40	5,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Mercury	0.10	10	88	<0.10	<0.10	<0.099	<0.10	<0.10	<0.099	<0.099	<0.099	<0.10	<0.10	0.10	<0.10	<0.10	<0.099

TPH Total Petroleum Hydrocarbons (mg/Kg)

GRO Gasoline Range Organics, C4-C13

DRO Diesel Range Organics, C13 - C22

ORO Oil Range Organics, C22 - C40+

VOCs Volatile Organic Compounds

fbgs feet below ground surface

mg/Kg milligrams per kilogram

ug/Kg micrograms per kilogram

EPA MCL: Region 9 Screening Levels, June, 2011

<sup>1</sup>CWRCB-SFBR: Table B-2: Shallow Soil Screening Levels (<3m bgs), Commercial/Industrial Land Use (groundwater not a drinking source)

<sup>2</sup>CWRCB-SFBR: Table D-2: Deep Soil Screening Levels (>3m bgs), Commercial/Industrial Land Use (groundwater not a drinking source)

\_\_\_ detection limit (PQL) exceeds screening level

**Bold indicates SFBR ESL exceedance**

TABLE 2.	Screening Levels		Sample ID				
SUMMARY OF SURFACE SOIL ANALYTICAL RESULTS	EPA Region 9 MCL Based SSL	CWQCB-SFBR ESLs <sup>1</sup>	SS1-S-0.25	SS2-S-0.25	SS3-S-0	SS4-S-0	SS5-S-0.25
<i>Hydrocarbons (mg/kg)</i>							
TPH-GRO	-	500	<0.97	<94	<1.2	<1.0	<1.0
TPH-DRO	-	110	<b>11,000</b>	29	18	<10	20
TPH-ORO	-	500	<b>21,000</b>	40	28	<10	31
<i>Volatile Organic Compounds (µg/kg)</i>							
1,2,4-Trimethylbenzene	-	-	<5.1	<5.0	<5.8	<5.6	<5.0
1,3,5-Trimethylbenzene	-	-	<5.1	<5.0	<5.8	<5.6	<5.0
4-Isopropyltoluene	-	-	<5.1	<5.0	<5.8	<5.6	<5.0
Benzene	2.6	1.2	<5.1	<5.0	<5.8	<5.6	<5.0
Ethylbenzene	780	4.7	<5.1	<5.0	<5.8	<5.6	<5.0
Toluene	690	9.3	<5.1	<5.0	<5.8	<5.6	<5.0
Isopropylbenzene	-	-	<5.1	<5.0	<5.8	<5.6	<5.0
m,p-Xylene	-	-	<10	<10	<12	<11	<10
o-Xylene	-	-	<5.1	<5.0	<5.8	<5.6	<5.0
Total Xylenes	9,800	11	<15.1	<15	<17.8	<16.6	<15
Napthalene	-	4.8	<5.1	<5.0	<5.8	<5.6	<5.0
n-Butylbenzene	-	-	<5.1	<5.0	<5.8	<5.6	<5.0
n-Propylbenzene	-	-	<5.1	<5.0	<5.8	<5.6	<5.0
sec-Butylbenzene	-	-	<5.1	<5.0	<5.8	<5.6	<5.0
tert-Butylbenzene	-	-	<5.1	<5.0	<5.8	<5.6	<5.0
<i>Metals (mg/kg)</i>							
Arsenic (inorganic)	0.29	1.6	<b>21</b>	<b>3.6</b>	<b>3.9</b>	<b>2.3</b>	<b>3.7</b>
Barium	82	1,500	24	32	24	21	40
Cadmium	-	12	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	180,000	2,500	2.2	2.5	2.3	1.2	1.9
Lead	14	320	22	11	18	3.8	3.9
Selenium	0.26	10	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	-	40	<1.0	<1.0	<1.0	<1.0	<1.0
Mercury	0.10	10	<0.10	<0.10	<0.10	<0.099	<0.10

TPH Total Petroleum Hydrocarbons (mg/Kg)

GRO Gasoline Range Organics, C4-C13

DRO Diesel Range Organics, C13 - C22

ORO Oil Range Organics, C22 - C40+

VOCs Volatile Organic Compounds

fbgs feet below ground surface

mg/Kg milligrams per kilogram

ug/Kg micrograms per kilogram

EPA MCL: Region 9 Screening Levels, June, 2011

<sup>1</sup>CWRCB-SFBR: Table B-2: Shallow Soil Screening Levels (<3m bgs), Commercial/Industrial Land Use  
(groundwater not a drinking source)

\_ detection limit (PQL) exceeds screening level

**Bold indicates SFBR ESL exceedance**







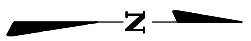
REVISIONS No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	DESCRIPTION	BY	DATE	<b>FIGURE 2</b>  <b>SITE MAP</b> <b>-SHOWING-</b> <b>SOIL SAMPLE LOCATIONS</b> <b>800 NORTH HWY 395</b> <b>CARTAGO, CALIFORNIA</b>
	DESIGNED	JF		
	DRAWN	TAD		
	CHECKED			
JOB NO.	LV-BEC-007	REFERENCE		

0 100 200  
FEET

**McGinley & Associates**  
Environmental Engineering and Science  
RENO | LAS VEGAS | www.mcgin.com







SAMPLE ID	DEPTH (ftbgs)	TPH (mg/Kg)	Xylene (ug/Kg)	LEAD (mg/Kg)
SB-3-S-5	5	<10 (DRO) <10 (ORO) <0.84 (GRO)	<12.3	3.1

SAMPLE ID	DEPTH (ftbgs)	TPH (mg/Kg)	Xylene (ug/Kg)	LEAD (mg/Kg)
SB-4-S-4	4	<9.9 (DRO) <9.9 (ORO) <0.84 (GRO)	<13.9	1.5

SAMPLE ID	DEPTH (ftbgs)	TPH (mg/Kg)	Xylene (ug/Kg)	LEAD (mg/Kg)
SB-1-S-1	1	26 (DRO) 20 (ORO) <1.1 (GRO)	<16.3	17
SB-1-S-5	5	11 (DRO) <9.9 (ORO) <1.1 (GRO)	<17.8	3.3
SB-1-S-10	10	29 (DRO) 11 (ORO) <0.94 (GRO)	<17.8	5.4
SB-1-S-15	15	43 (DRO) <10 (ORO) 1,500 (GRO)	60,200	8.5
SB-1-S-20	20	600 (DRO) 13 (ORO) 2,100 (GRO)	229,000	4.7
SB-1-S-25	25	1,100 (DRO) 22 (ORO) 1,900 (GRO)	286,000	9.7
SB-1-S-30	30	120 (DRO) 12 (ORO) 1,400 (GRO)	184,000	9.1

SAMPLE ID	DEPTH (ftbgs)	TPH (mg/Kg)	Xylene (ug/Kg)	LEAD (mg/Kg)
SB-2-S-1	1	<10 (DRO) <10 (ORO) <0.95 (GRO)	<15	3.2
SB-2-S-5	5	<10 (DRO) <10 (ORO) <0.98 (GRO)	<15.2	7.1
SB-2-S-10	10	<10 (DRO) <10 (ORO) <1.0 (GRO)	<15.1	3.6
SB-2-S-15	15	<10 (DRO) <10 (ORO) <1.0 (GRO)	<14.9	<1.0
SB-2-S-20	20	<10 (DRO) <10 (ORO) <0.90 (GRO)	<13.7	3.7

**LEGEND**

- SB-1 ● SUB-SURFACE SOIL SAMPLE
- UST FILL PORT

NOTE:  
XYLENE = SUM OF m,p-Xylene and o-Xylene



No.	DESCRIPTION	BY	DATE

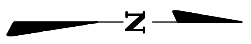
  

DESIGNED	DRAWN	TAD
JF	TAD	
CHECKED		

**FIGURE 4**  
**SITE MAP**  
 -SHOWING-  
**SUB-SURFACE SOIL SAMPLE**  
**AND ANALYTICAL SUMMARY**  
**800 NORTH HWY 395**  
**CARTAGO, CALIFORNIA**







SAMPLE ID	DEPTH (ftbgs)	TPH (mg/Kg)	Xylene (ug/Kg)	LEAD (mg/Kg)
SS-5-S-0.25	0.25	20 (DRO) 31 (ORO) <1.0 (GRO)	<15	3.9

SAMPLE ID	DEPTH (ftbgs)	TPH (mg/Kg)	Xylene (ug/Kg)	LEAD (mg/Kg)
SS-4-S-0	0	<10 (DRO) <10 (ORO) <1.0 (GRO)	<16.6	3.8

SAMPLE ID	DEPTH (ftbgs)	TPH (mg/Kg)	Xylene (ug/Kg)	LEAD (mg/Kg)
SS-3-S-0	0	18 (DRO) 28 (ORO) <1.2 (GRO)	<17.8	18

SAMPLE ID	DEPTH (ftbgs)	TPH (mg/Kg)	Xylene (ug/Kg)	LEAD (mg/Kg)
SS-1-S-0.25	0.25	11,000 (DRO) 21,000 (ORO) <0.97 (GRO)	<15.1	22

SAMPLE ID	DEPTH (ftbgs)	TPH (mg/Kg)	Xylene (ug/Kg)	LEAD (mg/Kg)
SS-2-S-0.25	0.25	29 (DRO) 40 (ORO) <0.94 (GRO)	<15	11

**LEGEND**

- SS-1▲ SURFACE SOIL SAMPLE
- UST FILL PORT

NOTE:  
XYLENE = SUM OF m,p-Xylene and o-Xylene



NO.	DESCRIPTION	BY	DATE

DESIGNED	CHECKED
JF	TAD

**FIGURE 5**  
**SITE MAP**  
 -SHOWING-  
**SURFACE SOIL SAMPLE**  
**AND ANALYTICAL SUMMARY**  
**800 NORTH HWY 395**  
**CARTAGO, CALIFORNIA**



# **APPENDIX A**

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## **Asbestos and Lead Based Paint Assessment Report**



# Macrotec

## Consulting, LLC.

### Renovation / Demolition Investigation Report Asbestos and Lead Based Paint Survey

#### Project Information:

PPG Industries – Bartlett Plant  
800 N. Highway 395  
Cartago, CA 93549

#### Report Info:

Macrotec Project # 13115  
October 31, 2013

#### Prepared For:

Brett Bottenberg  
McGinley & Associates  
6280 S. Valley View Blvd., Suite 604  
Las Vegas, NV 89118

#### Prepared By:

Randolph Brooke

#### Table of Contents:

Introduction  
Scope of Services  
Site Description  
Inspection Methodology  
Sample Analysis Methodology  
Asbestos Sample Assessment  
Lead Based Paint Assessment  
Recommendations  
Inspection Limitations

Appendix A	Asbestos Assessment
Appendix B	XRF Analyzer Results
Appendix C	Photo Log
Appendix D	Sample Location Diagrams
Appendix E	Laboratory Report
Appendix F	Certifications



## **INTRODUCTION**

Macrotec Consulting performed an inspection for Asbestos-Containing Building Materials and Lead Based Paint on October 12, 2013. The inspection was conducted for the project defined as: Renovation and/or Demolition of the buildings and structures on the property located at 800 N. Highway 395, Cartago, California. This project was conducted under the jurisdiction of the Great Basin Unified Air Pollution Control District.

The intent of this inspection was to identify materials containing asbestos and lead based paint, within the subject site, that may be impacted during planned renovation / demolition activities. Macrotec's inspection services were conducted at the request of Brett Bottenberg of McGinley & Associates.

Randolph Brooke, a State of California Certified Asbestos Consultant, Certification #05-3746, and a State of California Certified Lead Inspector/Assessor, Certification #24418 conducted these services for Macrotec Consulting. Jason McAllister, a Nevada Asbestos Abatement Consultant, License No. IPM0901, and a Nevada EPA Lead Inspector, certification #NV-I-125427-1 accompanied Mr. Brook and assisted with the project.

## **SCOPE OF SERVICES**

### **Asbestos**

Macrotec's asbestos inspection services were conducted to identify the presence of any materials containing asbestos pursuant to the requirements of:

- Cal OSHA
- OSHA's "Criteria to rebut the designation of installed material as PACM (Presumed Asbestos Containing Material)", 1926.1101(k)(5).
- EPA's: 40 CFR Part 61 National Emission Standard for Hazardous Air Pollutants (NESHAP).

These regulations outline inspection and abatement requirements for materials containing asbestos.

### **Lead**

Macrotec collected X-Ray Fluorescence (XRF) readings to identify the presence and content level of lead above the action level in compliance with the U.S. Department of Housing and Urban Development (HUD) and the Environmental Protection Agencies (EPA) regulatory requirements.

## SITE DESCRIPTION

The subject site is located on the west bank of Owens Dry Lake in Inyo County, California. The site was a former industrial property that milled soda ash from the dry lake bed. The buildings and structures on the subject property were originally built to support the milling of the soda ash. They include a two-story office building (which is now a residence for the property's care takers), a fabrication building, a mill, three storage silos and a collapsed building. The following diagram is an overhead view of the property with the buildings and structures labeled.



The house is a 7,600 square foot, two-story structure with concrete perimeter walls on the first floor, brick perimeter walls on the second floor, and a flat concrete roof. The fabrication building is a 13,000 square foot warehouse building with metal framing, metal walls and metal roof on a concrete foundation. The mill is a 20,000 square foot building with metal framing, metal walls and a metal roof on a concrete foundation. There are four large metal hoppers that are in and above the mill. There are three metal silos located adjacent to the mill. There is a concrete basement beneath the silos that have nine smaller hoppers. The collapsed building is a metal structure on a concrete foundation (which measures 3,500 square feet) that appears to have collapsed due to wind.

Macrotec's inspection was limited to these locations within the subject property site planned for renovation and/or demolition as described above.

## **INSPECTION METHODOLOGY**

An initial walk through of the subject site was conducted to identify homogeneous suspect materials containing asbestos and/or lead based paint, and their respective locations. This information was then used to develop a sample collection strategy.

Asbestos samples were collected by pre-wetting sample areas with water, then cutting or scraping the sample from the substrate with an appropriate sampling tool. Whenever possible, samples were collected from areas previously damaged or deteriorating. To avoid potential contamination due to unknown asbestos and/or lead based paint content; no building systems, components, or structures were demolished to obtain samples of potentially hidden materials containing asbestos.

Each suspect bulk sample was sealed in its own zip lock plastic container and labeled with a unique identification number. Sampling tools were individually cleaned before and after each sample was collected to avoid sample cross contamination. Decontamination was accomplished using single use, pre-moistened cloths.

Samples were recorded on Macrotec's chain-of-custody form. This form accompanied the samples to Triangle Environmental Service Center, Inc. (TESC), located in Moseley, Virginia. The National Voluntary Laboratory Accreditation Program (NVLAP) accredits TESC for analysis of bulk building material samples for asbestos.

Lead testing was conducted in accordance with chapter seven of the Guidelines of the Evaluation and Control of Lead Based Paint Hazards in Housing published by HUD. Interior XRF readings were taken on the painted surfaces which will be impacted during renovation activities. The HUD definition of lead based paint is lead equal to or greater than 1.0 mg/cm<sup>2</sup>. All results above this level are considered positive and all results found below this level are considered negative.

## **SAMPLE ANALYSIS METHODOLOGY**

### **Asbestos**

Suspect asbestos samples were subjected to analysis by polarized light microscopy (PLM). Bulk sample analysis was conducted in accordance with the EPA's "Test Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116, 1993.

## Lead

Painted surfaces were tested using an X-Ray Fluorescence (XRF) analyzer. The XRF was a Niton XLp300A paint analyzer serial #26948. The instrument was calibrated to the manufactures specifications before and after the inspection, verified against the National Institute of Standards and Testing (NIST) Standard Reference Material (SRM) P/N 500-934. The analyzer was in control at all times of the NIST SRM lead standard.

## ASBESTOS SAMPLE ASSESSMENT

Macrotec's inspection of the subject site found **Fifty (50)** separate suspect asbestos building materials, of which a total of **Eighty Four (84)** samples were collected and submitted for analysis.

The following table summarizes the materials that were found to be asbestos containing, the locations where the material is located, the material's friability and its NESHAP classification.

### House

Material Number	Material Description	Material Locations	Material Friability	NESHAP
1	Acoustic Ceiling Texture	This material is located on the ceilings throughout the second floor of the house (excluding room 3) ~3,500 Square Feet. Note: This material is in very poor condition throughout the second floor of the house and has contaminated the building materials and contents throughout the area.	Non-Friable	RACM <sup>1</sup>
4	9"x9" Beige VCT	This material is located on the floors in the laundry room on the first floor and the hall, room 3, room 5, room 6, room 7, and room 9 on the second floor. ~2,200 Square Feet	Non-Friable	Category I <sup>2</sup>
20	Gray Roof Mastic	This material is on the cracks on the concrete, on the pipe penetrations and on the parapet wall on the roof. ~250 Square Feet	Non-Friable	Category I <sup>2</sup>

### Fabrication Building

Material Number	Material Description	Material Locations	Material Friability	NESHAP
25	Black Floor Mastic	This material is located on the floors in rooms 4, 5 and 6. ~700 Square Feet.	Non-Friable	Category I <sup>2</sup>
30	Gray Roof Mastic	This material is located in the center gutter on the roof. ~50 Square Feet	Non-Friable	Category I <sup>2</sup>

<sup>1</sup> RACM – Regulated Asbestos Containing Material means a material which is friable asbestos and is subject to 40 CFR Part 61 and 1926.1101, which sets forth provisions for the abatement of asbestos.

<sup>2</sup> Category I nonfriable asbestos-containing material means asbestos containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1% asbestos as determined by Polarized Light Microscopy (PLM)



## Property Grounds

Material Number	Material Description	Material Locations	Material Friability	NESHAP
31 & 32	Gaskets	There were two gaskets found on the ground adjacent to the fabrication building and the mill. It is assumed that this material could be at any pipe junctions on the property.	Non-Friable	Category I <sup>2</sup>
35 & 36	Transite Pipe	There was a pile of transite pipe on the ground adjacent to the collapsed building. ~70 Linear Feet of 14" Diameter Pipe and 70 Linear Feet of 7" Diameter Pipe	Non-Friable	Category II <sup>3</sup>

## Collapsed Building

Material Number	Material Description	Material Locations	Material Friability	NESHAP
33	TSI Debris	This material is amongst the metal of the collapsed building. Note: The soil beneath the collapsed building may be contaminated with this friable material.	Friable	RACM <sup>1</sup>
34	Cementacious Panels	This material is in poor condition on the ground directly adjacent to the collapsed building. Note: The soil beneath the collapsed building may be contaminated with this friable material.	Friable	RACM <sup>1</sup>

## Mill and Silos

Material Number	Material Description	Material Locations	Material Friability	NESHAP
39	Window Putty	This material is in poor condition on the windows in the mill. There is approximately 700 square feet of windows with this material on them.	Friable	RACM <sup>1</sup>
47	Round Gasket	This material is at pipe junctions in the mill, silos and basement beneath silos.	Non-Friable	Category I <sup>2</sup>
48 & 49	Square Gaskets (Red & White)	This material is at hopper junctions in the mill, silos, and basement beneath silos.	Non-Friable	Category I <sup>2</sup>
50	Black Mastic	This material is on the concrete adjacent the silos where the soda ash elevators go into the basement beneath the silos.	Non-Friable	Category I <sup>2</sup>

See Appendix A for a listing of the materials, material locations, samples, sample locations and results for this project.

<sup>3</sup> Category II non-friable asbestos-containing material means any material, excluding Category I, containing more than 1 percent asbestos.

## **LEAD BASED PAINT ASSESSMENT**

Macrotec collected **Seven Hundred Nineteen (719)** XRF paint readings within the subject site.

The following table lists all materials above the HUD action level of 1.0 mg/cm<sup>2</sup>.

<b>Material Description</b>	<b>Sample Location</b>	<b>Condition</b>	<b>Result mg/cm<sup>2</sup></b>
Ceramic Wall Tile (Beige and Red)	Located on the lower walls in room 4 and the bathroom on the second floor of the house.	Intact	4.5-16.7
Gray Wood Wall	Located on the north wall in the open room, adjacent room 1, in the fabrication building.	Deteriorated	1.4-2.1
Green Wood Wall	Located on the north wall of room 1 in the fabrication building.	Deteriorated	2.9
Green Ceramic Wall Tile	Located on the lower walls in room 2 in the fabrication building.	Intact	7.1-12.0
Orange Metal Grate / Stair Landing	Located amongst the collapsed metal building, and on the exterior stairway, on the east side of the mill.	Deteriorated	1.1-2.3
Brown, Red and Gray Metal Framing	Located on the metal columns, beams and struts on the interior of the mill and on the structural columns supporting the large hoppers.	Deteriorated	0.9-5.6
White Wood Window Frames	Located on the west wall, adjacent to the new living area.	Intact	1.2-1.5
Gray Metal Staircase	Located on the interior and exterior staircases on the north side of the mill.	Deteriorated	1.2-3.6
Yellow and Gray Metal Ducts	Located on the ducts (that moved the soda ash) between the silos, up the elevators, and between the silos and the large hoppers above the mill.	Deteriorated	1.3
Yellow and Gray Metal Silo Elevator Framing	Located on the framing of the soda ash elevator system adjacent to the silos.	Deteriorated	1.1
White Metal Silo Exterior	Located on the exterior of the north silo.	Deteriorated	1.4-2.1
White Ceramic Baseboard Tile	Located in the shower of the new bathroom in the mill.	Intact	5.8-6.9

See Appendix B for a listing of the painted surfaces, XRF readings, and XRF reading locations and results for this project.

## **RECOMMENDATIONS**

### **Asbestos**

US EPA and local APC regulations require the removal of all regulated asbestos-containing materials (RACM) prior to any renovation or demolition that could impact or disturb RACM. For this project, these materials include the acoustic ceiling texture (and contaminated building materials and contents) in the house, the TSI and cementacious panels (and contaminated soil) amongst the collapsed building, and the window putty in the mill. In accordance with these regulations Macrotec recommends:

Hiring a Certified Asbestos Consultant to develop a project specification based on this investigation and any other additional findings.

Hiring a licensed Asbestos Abatement Contractor to remove all asbestos materials, which are either regulated or may become regulated during the course of renovation and/or demolition activities.

Hiring a Certified Asbestos Consultant to monitor the removal activities and to provide final clearance inspection reports.

For the second floor and stairwell of the house, Macrotec recommends cleaning (or discarding when necessary) all contents and building materials within the area. For the TSI and cementacious panels in poor condition amongst the debris of the collapsed building, Macrotec recommends removing the contaminated soil in the areas where those materials lie.

Although the Category I materials (VCT, floor mastic, roof mastic, gaskets) and Category II material (pile of transite pipe) found to contain asbestos in this investigation are non-friable in good condition, they need to be dealt with as RACM if they have a high probability of becoming pulverized or reduced to powder by the forces expected to act on the material in the course of demolition or renovation. Macrotec recommends the removal of all ACM (in the manner described for RACM) whenever feasible.

### **Lead**

Lead based paint is a common cause of lead poisoning in children and represents a threat to the health and welfare of occupants. If economically feasible, Macrotec recommends that all positive readings be considered to be a potential lead hazard and procedures be incorporated into the overall renovation and maintenance strategy. OSHA regulations require the implementation of

worker protection if there is a potential that paint with any amount of lead in it will be disturbed during demolition or renovation activities.

Macrotec recommends hiring a California Licensed Lead Abatement contractor to stabilize and/or remove all regulated lead painted materials. EPA now allows lead-safe certified renovation contractors and certified persons under the *Renovate Right* law to perform renovation of leaded areas, but a lead abatement company is necessary if the material is to be fully abated.

Macrotec also recommends that after any renovation or abatement of leaded materials is completed, that a certified lead inspector or risk assessor be hired to provide final clearance inspection report. This will ensure the work has been completed successfully, prove the adjacent areas have not been contaminated, and will further limit the facility's liability.

### **“Disclosure Rule”**

Lead based paint was identified at the subject site, therefore a copy of this summary must be provided to new lessees (tenants) and purchasers of this property under Federal law (24CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. The complete report must also be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet approved by the U.S. Environmental Protection Agency and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

### **INSPECTION LIMITATIONS**

The information contained in this report is limited to those areas and suspect materials found to be visually accessible through reasonable means.

Macrotec conducted a non-destructive survey. No demolition of building materials was conducted to determine the presence of asbestos or lead paint in wall cavities, chases or other inaccessible areas. Macrotec cannot warrant that these areas do not contain asbestos or lead in locations other than those noted in this report, however, a good faith effort was made to conduct a comprehensive survey.

- Macrotec accepts no liability for additional materials or under reporting of asbestos materials that exist below other floor coverings.

- **This report is not represented as, nor is it intended to be, an asbestos or lead based paint abatement scope of work or project specification.**
- If suspect materials are discovered during future demolition operations, cease all general work activities which could impact the discovered suspect materials, until confirmation sampling can be conducted.

Thank you for allowing Macrotec Consulting to assist you with your environmental consulting needs. Please contact us with any questions regarding this report at (702) 338-8213.

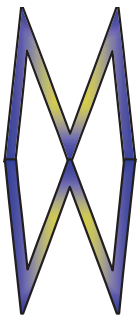
A handwritten signature in cursive script that reads "Randolph L. Brooke". The signature is written in black ink and is positioned above a horizontal line.

Randolph Brooke

California Certified Asbestos Consultant, Certification #05-3746

California Certified Lead Inspector/Assessor, Certification #24418

# Appendix A



# Macrotec Consulting, LLC.

## Appendix A - Asbestos Assessment

### Macrotec Job #13115 - PPG Industries - Bartlett Plant

The following table lists each of the materials suspected to contain asbestos at the subject site. For each material the sample number, location and laboratory result are listed. If the material was found to contain asbestos, the friability and NESHAP classification is identified.

#### 1 Acoustic Ceiling Texture

**Friable, RACM**

This material is located on the ceilings in the second floor of the house. Note: This material is in poor condition and on the floor and contents throughout the second floor. ~3,500 Sq. Ft.

AB1	House - 2nd Floor - Room 1 - NW corner	2% Chrysotile
AB2	House - 2nd Floor - Hall - Adj. Mech Rm door	2% Chrysotile
AB3	House - 2nd Floor - Room 9 - Center	2% Chrysotile
AB4	House - 2nd Floor - Room 7 - Center	2% Chrysotile
AB5	House - 2nd Floor - Room 2 - W side	2% Chrysotile

#### 2 Plaster Ceiling Substrate

**No Asbestos Detected**

This material is located on the ceilings in the second floor of the house.

AB6	House - 2nd Floor - Room 1 - NW corner	None Detected
AB7	House - 2nd Floor - Hall - Adj. Mech Rm door	None Detected
AB8	House - 2nd Floor - Room 9 - Center	None Detected
AB9	House - 2nd Floor - Bathroom - Center	None Detected
AB10	House - 2nd Floor - Room 3 - S end	None Detected

#### 3 Interior Plaster Walls

**No Asbestos Detected**

This material is located on all of the walls in the second floor of the house and on the inner walls in the first floor of the house.

AB11	House - 2nd Floor - Room 1 - W wall	None Detected
AB12	House - 2nd Floor - Mech Room - S wall	None Detected
AB13	House - 2nd Floor - Room 8 - S wall	None Detected
AB14	House - 2nd Floor - Room 9 - N wall	None Detected
AB15	House - 2nd Floor - Room 3 - N wall	None Detected
AB16	House - 1st Floor - Cat Room - NW corner	None Detected
AB17	House - 1st Floor - Room 13 - N wall	None Detected

#### 4 9"x9" Beige VCT

**Non-Friable, Category I**

This material is located in the second floor hall, room 3, room 5, room 6, room 7, room 9 and in the first floor laundry room of the house. ~2,200 Sq. Ft.

AB18	House - 2nd Floor - Hall - S end	2% Chrysotile
AB19	House - 2nd Floor - Hall - N end, adj. stairs	2% Chrysotile
AB20	House - 1st Floor - Laundry Rm - Adj. ext door	2% Chrysotile

# Appendix A

Macrotec Job #13115 - PPG Industries - Bartlett Plant

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## 5 Black Floor Mastic

**No Asbestos Detected**

This material is located in the second floor hall, room 1, room 3, room 5, room 6, room 7, room 9, the stairwell, and in the first floor laundry room of the house.

AB21	House - 2nd Floor - Hall - S end	None Detected
AB22	House - 2nd Floor - Hall - N end, adj. stairs	None Detected
AB23	House - 1st Floor - Laundry Room - Adj. ext door	None Detected

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## 6 Window Putty

**No Asbestos Detected**

This material is located on the "original" windows that remain on the second floor of the house.

AB24	House - 2nd Floor - Room 9 - SE corner	None Detected
AB25	House - 2nd Floor - Room 7 - W side	None Detected
AB26	House - 2nd Floor - Room 1 - N side	None Detected

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## 7 1'x1' Acoustic Ceiling Tile

**No Asbestos Detected**

This material is located on the ceiling in room 3 on the second floor of the house.

AB27	House - 2nd Floor - Room 3 - S end	None Detected
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## 8 Yellow Ceiling Tile Mastic

**No Asbestos Detected**

This material is located on the ceiling in room 3 on the second floor of the house.

AB28	House - 2nd Floor - Room 3 - S end	None Detected
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## 9 Brown Base Cove Mastic

**No Asbestos Detected**

This material is located on the lower walls in the house.

AB29	House - 2nd Floor - Room 6 - Adj. door	None Detected
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## 10 Yellow Base Cove Mastic

**No Asbestos Detected**

This material is located on the lower walls in the house.

AB30	House - 2nd Floor - Hall - Adj. room 7	None Detected
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## 11 12"x12" Peel & Stick Floor Tile

**No Asbestos Detected**

This material is located on the floor in the kitchen area in room 13 on the first floor of the house.

AB31	House - 1st Floor - Room 13 - N end	None Detected
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# Appendix A

Macrotec Job #13115 - PPG Industries - Bartlett Plant

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## 12 Beige Concrete Crack Fill

**No Asbestos Detected**

This material is located on various portions of the floor on the first floor of the house.

AB32	House - 1st Floor - Room 13 - N end	None Detected
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## 13 Canvas Duct Wrap

**No Asbestos Detected**

This material is on some of the ducts running through the first floor of the house.

AB33	House - 1st Floor - Closet - Adj. door	None Detected
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## 14 Electrical Wire Insulation

**No Asbestos Detected**

This material is on the electrical wires in the house.

AB34	House - 1st Floor - Room 11 - Adj. door	None Detected
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## 15 Yellow Mastic on Duct

**No Asbestos Detected**

This material is on some of the ducts running through the first floor of the house.

AB35	House - 1st Floor - Hall - E side	None Detected
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## 16 12"x12" Off-White VCT

**No Asbestos Detected**

This material is on the floor in the cat room in the first floor of the house.

AB36	House - 1st Floor - Cat Room - Adj. ext door	None Detected
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## 17 Black Floor Mastic

**No Asbestos Detected**

This material is on the floor in the cat room in the first floor of the house.

AB37	House - 1st Floor - Cat Room - Adj. ext door	None Detected
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## 18 Plaster Soffit

**No Asbestos Detected**

This material is on the soffits along the perimeter of the exterior of the house.

AB38	House - Exterior - N side	None Detected
AB39	House - Exterior - W side	None Detected
AB40	House - Exterior - S side	None Detected

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## 19 Cement Roof Material

**No Asbestos Detected**

This material is the primary component of the main roof on the house.

AB41	House -Main Roof - Center	None Detected
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# Appendix A

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## 20 Gray Roof Mastic

**Non-Friable, Category I**

This material is on the cracks, parapet wall and pipe penetrations on the main roof of the house. ~250 Sq. Ft.

AB42	House - Main Roof - E side, on pipe	None Detected
AB43	House - Main Roof - NW corner, on parapet	5% Chrysotile
AB44	House - Main Roof - Center, on crack	None Detected

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## 21 Gray Asphalt Roll Roofing

**No Asbestos Detected**

This material is on the roof of the cat area, and in piles of debris on the west and east sides of the house.

AB45	House - Exterior - Debris, W side of house	None Detected
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## 22 Black Tar Paper

**No Asbestos Detected**

This material is on the roof of the cat area, and in piles of debris on the west and east sides of the house.

AB46	House - Exterior - Debris, W side of house	None Detected
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## 23 Black Roof Mastic

**No Asbestos Detected**

This material is on the roof of the cat area, and in piles of debris on the west and east sides of the house.

AB47	House - Exterior - Debris, W side of house	None Detected
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## 24 Unfinished Drywall & Mud

**No Asbestos Detected**

This material is on the walls in rooms 4 & 5 in the fabrication building.

AB48	Fabrication Bldg - Room 4 - Adj. N door	None Detected
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## 25 Black Floor Mastic

**Non-Friable, Category I**

This material is on the floors in rooms 4, 5, and 6 in the fabrication building. ~700 Sq. Ft.

AB49	Fabrication Bldg - Room 6 - W side	5% Chrysotile
AB50	Fabrication Bldg - Room 5 - W side	5% Chrysotile
AB51	Fabrication Bldg - Room 4 - S side	5% Chrysotile

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## 26 Window Putty

**No Asbestos Detected**

This material is on all of the windows in (and fallen around perimeter of) the fabrication building.

AB52	Fabrication Bldg - Room 4 - W side	None Detected
AB53	Fabrication Bldg - Room 2 - NE corner	None Detected
AB54	Fabrication Bldg - Exterior - Ground, W of bldg	None Detected

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## 27 Electrical Wire Insulation

**No Asbestos Detected**

This material is on the electrical wires in the fabrication building.

AB55	Fabrication Bldg - Open Area - Center	None Detected
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## 28 Insulation in Man Door

**No Asbestos Detected**

This material is in the man doors in the fabrication building.

AB56	Fabrication Bldg - Open Area - W wall	None Detected
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## 29 Cementacious Deck

**No Asbestos Detected**

This material is above the rooms in the NE corner of the fabrication building.

AB57	Fabrication Bldg - Above Rooms - SW corner	None Detected
AB58	Fabrication Bldg - Above Rooms - Center	None Detected
AB59	Fabrication Bldg - Above Rooms - NE corner	None Detected

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## 30 Gray Roof Mastic

**Non-Friable, Category I**

This material is in the gutter in the center valley (running north to south) of the fabrication building. ~50 Sq. Ft.

AB60	Fabrication Bldg - Roof - S end	5% Chrysotile
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## 31 Large Gasket on Driveway

**Non-Friable, Category I**

This material was found laying on the driveway adjacent to the fabrication building. It is assumed that this material could be at any pipe junctions on the property.

AB61	Grounds - Driveway - Adj. fabrication bldg	98% Chrysotile
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## 32 Small Gasket on Driveway

**Non-Friable, Category I**

This material was found laying on the driveway adjacent to the mill. It is assumed that this material could be at any pipe junctions on the property.

AB62	Grounds - Driveway - Adj. mill	98% Chrysotile
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## 33 TSI Debris

**Friable, RACM**

This material was found amongst the debris of the collapsed building in the southeast corner of the property. Note: The soil beneath the collapsed building may be contaminated with this friable material.

AB63	Grounds - Collapsed Bldg - N side	98% Amosite
AB64	Grounds - Collapsed Bldg - Center	98% Amosite
AB65	Grounds - Collapsed Bldg - S side	98% Amosite

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## 34 Cementacious Panel

**Friable, RACM**

This material was found amongst the debris of the collapsed building in the southeast corner of the property. Note: This material is friable due to its poor condition and may have contaminated the soil

AB66	Grounds - Collapsed Bldg - S side	15% Chrysotile
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## 35 Large Transite Pipe (14" Diameter)

**Non-Friable, Category II**

This material was found stacked up adjacent to the collapsed building. Note: It is in good condition.

~70 Linear Feet

AB67	Grounds - Adjacent Collapsed Bldg	15% Chrys; 5% Crocid
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## 36 Small Transite Pipe (7" Diameter)

**Non-Friable, Category II**

This material was found stacked up adjacent to the collapsed building. Note: It is in good condition.

~70 Linear Feet

AB68	Grounds - Adjacent Collapsed Bldg	15% Chrysotile
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## 37 UST Lid Material

**No Asbestos Detected**

This material was found adjacent the fabrication building.

AB69	Grounds - Adjacent Fabrication Bldg	None Detected
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## 38 Black Material on Concrete

**No Asbestos Detected**

This material was found on the concrete foundations north of the fabrication building.

AB70	Grounds - Foundations N of Fabrication Bldg	None Detected
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## 39 Window Putty

**Friable, RACM**

This material is on all of the window sashes throughout the mill building. There are ~700 Square Feet of windows with this material in the building.

AB71	Mill Bldg - Interior - SE corner	2% Chrysotile
AB72	Mill Bldg - Interior - W side	2% Chrysotile
AB73	Mill Bldg - Interior - N side	2% Chrysotile

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## 40 Black Material on Furnace

**No Asbestos Detected**

This material is on a furnace in the mill building.

AB74	Mill Bldg - Interior - Center	None Detected
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## 41 Spray Texture on New Bathroom Wall

**No Asbestos Detected**

This material is on the walls in the newly built bathroom in the west side of the mill building.

AB75	Mill Bldg - Interior - W side	None Detected
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# Appendix A

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## 42 Ceiling Substrate - Smooth (Drywall & Mud)

**No Asbestos Detected**

This material is on the ceilings in the two small rooms in the center of the mill building.

AB76	Mill Bldg - Interior - Small Room in center	None Detected
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## 43 Black Flooring Material

**No Asbestos Detected**

This material was found on a small area of the floor in the south end of the mill building.

AB77	Mill Bldg - Interior - S end	None Detected
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## 44 Black Flex Pipe

**No Asbestos Detected**

This material was found on the top of the hopper at the north end of the mill building.

AB78	Mill Bldg - Exterior - Top of N hopper	None Detected
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## 45 Black Roof Mastic

**No Asbestos Detected**

This material is on penetrations on the roof of the mill building.

AB79	Mill Bldg - Exterior - Roof, adj. N hopper	None Detected
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## 46 Black Wall Mastic

**No Asbestos Detected**

This material is on penetrations on the E wall of the mill building.

AB80	Mill Bldg - Exterior - E wall, S end	None Detected
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## 47 Gasket - White - Round

**Non-Friable, Category I**

This material is at pipe junctions in the mill and silos.

AB81	Silos - Top of Center Silo	20% Chrysotile
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## 48 Gasket - White - Square

**Non-Friable, Category I**

This material is at hopper junctions in the mill and silos.

AB82	Silos - Basement Below Silos - Adj. stairs	20% Chrysotile
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## 49 Gasket - Red - Square

**Non-Friable, Category I**

This material is at hopper junctions in the mill and silos.

AB83	Silos - Basement Below Silos - Adj. stairs	3% Chrysotile
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# Appendix A

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## 50 Black Mastic

**Non-Friable, Category I**

This material is at the base of the silos where they enter the basement below the silos.

AB84	Silos - Exterior - Adj. center silo	5% Chrysotile
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# Appendix B

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 14:00	0.3		Cal		Yellow				POS	1.38	4.3	2.8	4.3	2.8	< LOD	12.45
10/12/13 14:00	0.3		Cal		Yellow				POS	1.25	3.7	2.4	3.7	2.4	< LOD	14.1
10/12/13 14:01	0.3		Cal		Yellow				POS	1.28	3.7	2.4	3.7	2.4	< LOD	12.15
10/12/13 14:18	2.09	Wall	Plaster	A	Pink	House	2	1	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	2.33
10/12/13 14:18	4.17	Wall	Plaster	B	Pink	House	2	1	NEG	1.48	< LOD	0.03	< LOD	0.03	< LOD	0.97
10/12/13 14:19	3.29	Wall	Plaster	C	Pink	House	2	1	NEG	1.17	0.06	0.03	0.06	0.03	< LOD	1.05
10/12/13 14:19	1.78	Wall	Plaster	D	Pink	House	2	1	NEG	1.69	< LOD	0.14	< LOD	0.14	< LOD	1.8
10/12/13 14:21	1.5	Ceiling	Plaster		Pink	House	2	1	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 14:22	1.19	Door	Metal	D	Blue	House	2	1	NEG	3.64	< LOD	0.12	< LOD	0.12	< LOD	3.13
10/12/13 14:22	1.19	Doorframe	Metal	D	Beige	House	2	1	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.45
10/12/13 14:22	1.19	Safe Door	Metal	D	Pink	House	2	1	NEG	1	< LOD	0.08	< LOD	0.08	< LOD	3.74
10/12/13 14:23	1.19	Safe Door	Metal	D	Pink	House	2	1	NEG	1.03	< LOD	0.08	< LOD	0.08	< LOD	3.78
10/12/13 14:23	1.19	Safe Door	Metal	D	Pink	House	2	1	NEG	1.06	< LOD	0.08	< LOD	0.08	< LOD	3.3
10/12/13 14:23	1.19	Safe Doorframe	Metal	D	Pink	House	2	1	NEG	1.88	< LOD	0.18	< LOD	0.18	< LOD	3.89
10/12/13 14:23	1.19	Safe Doorframe	Metal	D	Pink	House	2	1	NEG	1.53	< LOD	0.14	< LOD	0.14	< LOD	3.57
10/12/13 14:24	1.19	Safe Threshold	Concrete	D	Blue	House	2	1	NEG	1.47	< LOD	0.18	< LOD	0.18	< LOD	4.07
10/12/13 14:26	1.2	Window Sill	Wood	C	Blue	House	2	1	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.78
10/12/13 14:26	1.2	Column	Metal	C	Gray	House	2	1	NEG	2.54	< LOD	0.25	< LOD	0.25	< LOD	4.01
10/12/13 14:27	1.19	Column	Metal	B	Gray	House	2	1	NEG	1.2	< LOD	0.11	< LOD	0.11	< LOD	4.2
10/12/13 14:27	5.97	Window Frame	Metal	B	Gray	House	2	1	NEG	1.5	< LOD	0.03	< LOD	0.03	< LOD	1.12
10/12/13 14:28	3.29	Window Sill	Metal	B	Gray	House	2	1	NEG	2.02	< LOD	0.96	< LOD	0.03	< LOD	0.96
10/12/13 14:29	3.27	Floor	VCT	B	Beige	House	2	1	NEG	3.07	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 14:30	1.79	Wall	Plaster	A	Pink	House	2	2	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2
10/12/13 14:30	1.49	Wall	Plaster	B	Pink	House	2	2	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.13
10/12/13 14:31	2.99	Wall	Plaster	C	Pink	House	2	2	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.65
10/12/13 14:31	2.09	Wall	Plaster	D	Pink	House	2	2	NEG	1.21	< LOD	0.03	< LOD	0.03	< LOD	1.95
10/12/13 14:32	15.21	Ceiling	Plaster		Pink	House	2	2	NEG	6.13	0.8	0.2	< LOD	0.03	0.8	0.2
10/12/13 14:33	1.19	Door	Metal	A	Black	House	2	2	NEG	2.53	< LOD	0.1	< LOD	0.1	< LOD	3.64
10/12/13 14:33	1.2	Doorframe	Metal	A	Black	House	2	2	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	3.97
10/12/13 14:33	1.2	Doorframe	Metal	A	Black	House	2	2	NEG	1.12	< LOD	0.09	< LOD	0.09	< LOD	3.57
10/12/13 14:34	3.86	Floor	Concrete	A	Blue	House	2	2	NEG	1.17	0.04	0.02	0.04	0.02	< LOD	1.35
10/12/13 14:34	1.19	Closet Doorframe	Metal	D	Pink	House	2	2	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.71
10/12/13 14:35	1.19	Closet Doorframe	Metal	D	Pink	House	2	2	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 14:35	1.19	Closet Shelf	Metal	D	Pink	House	2	2	NEG	1.83	< LOD	0.14	< LOD	0.14	< LOD	1.79
10/12/13 14:35	1.19	Closet Shelf	Wood	D	Pink	House	2	2	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	1.65
10/12/13 14:37	3.28	Wall	Plaster	A	Pink	House	2	3	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.05
10/12/13 14:38	3.26	Wall	Plaster	B	Pink	House	2	3	NEG	1.09	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 14:38	3.29	Wall	Plaster	C	Pink	House	2	3	NEG	1.3	< LOD	0.03	< LOD	0.03	< LOD	1.05
10/12/13 14:38	2.98	Wall	Plaster	D	Pink	House	2	3	NEG	1.37	< LOD	0.05	< LOD	0.05	< LOD	1.95
10/12/13 14:39	1.19	Ceiling	Laminate		White	House	2	3	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 14:40	1.2	Door	Metal	C	Gray	House	2	3	NEG	1	< LOD	0.13	< LOD	0.13	< LOD	3.15
10/12/13 14:40	1.19	Window Frame	Metal	C	Pink	House	2	3	NEG	1.07	< LOD	0.09	< LOD	0.09	< LOD	3.45



Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 14:41	1.19	Window Frame	Metal	A	Gray	House	2	3	Null	1	< LOD	0.03	< LOD	0.03	< LOD	2.49
10/12/13 14:41	1.49	Window Frame	Metal	A	Gray	House	2	3	NEG	1.31	< LOD	0.03	< LOD	0.03	< LOD	2.61
10/12/13 14:42	1.19	Closet Door	Metal	D	Pink	House	2	3	NEG	10	< LOD	2.07	< LOD	0.14	< LOD	2.07
10/12/13 14:42	1.19	Closet Doorframe	Metal	D	White	House	2	3	NEG	2.43	< LOD	0.19	< LOD	0.19	< LOD	1.79
10/12/13 14:43	1.19	Closet Shelf	Wood	D	Pink	House	2	3	NEG	1.43	< LOD	0.12	< LOD	0.12	< LOD	1.95
10/12/13 14:43	1.18	Closet Shelf	Wood	D	Pink	House	2	3	NEG	2.67	< LOD	0.27	< LOD	0.27	< LOD	1.95
10/12/13 14:43	3.57	Floor	VCT		Beige	House	2	3	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 14:44	3.29	Window Sill	Metal	A	Gray	House	2	3	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.01
10/12/13 14:45	1.2	Counter	Metal	A	Gray	House	2	3	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.52
10/12/13 14:46	3.28	Wall	Plaster	A	Beige	House	2	4	NEG	7.56	< LOD	0.08	< LOD	0.08	< LOD	1.05
10/12/13 14:46	3.29	Wall	Plaster	B	Beige	House	2	4	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.05
10/12/13 14:47	3.3	Wall	Plaster	C	Beige	House	2	4	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 14:47	3.28	Wall	Plaster	D	Beige	House	2	4	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.05
10/12/13 14:48	6.26	Ceiling	Plaster		Beige	House	2	4	Null	1	< LOD	0.03	< LOD	0.03	0.9	0.3
10/12/13 14:48	0.3	Wall	Ceramic Tile	A	Beige	House	2	4	POS	1.78	6.9	8.1	< LOD	8.1	< LOD	25.8
10/12/13 14:48	0.3	Wall	Ceramic Tile	B	Beige	House	2	4	POS	1.46	4.5	4.8	< LOD	4.8	< LOD	24.75
10/12/13 14:48	0.6	Wall	Ceramic Tile	B	Red	House	2	4	POS	1.91	13.3	16.65	< LOD	11.1	< LOD	16.65
10/12/13 14:49	0.6	Wall	Ceramic Tile	A	Red	House	2	4	POS	1.94	16.7	18.15	< LOD	12.3	< LOD	18.15
10/12/13 14:50	3.28	Floor	Ceramic Tile		Beige	House	2	4	NEG	3.73	< LOD	0.05	< LOD	0.05	< LOD	1.5
10/12/13 14:50	1.19	Wall	Laminate	C	White	House	2	4	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.95
10/12/13 14:51	5.05	Window Frame	Metal	C	Gray	House	2	4	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	0.89
10/12/13 14:51	1.2	Door	Metal	A	Gray	House	2	4	NEG	1.87	< LOD	0.14	< LOD	0.14	< LOD	2.95
10/12/13 14:52	1.2	Doorframe	Metal	A	White	House	2	4	NEG	4.57	< LOD	0.38	< LOD	0.38	< LOD	3.3
10/12/13 14:52	1.2	Doorframe	Metal	A	Pink	House	2	4	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	3.2
10/12/13 14:53	2.37	Wall	Plaster	A	Beige	House	2	Mech	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.06
10/12/13 14:53	3.27	Wall	Plaster	B	Beige	House	2	Mech	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 14:53	3.28	Wall	Plaster	C	Beige	House	2	Mech	NEG	2.26	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 14:53	3	Wall	Plaster	D	Beige	House	2	Mech	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.65
10/12/13 14:54	2.98	Ceiling	Plaster		Beige	House	2	Mech	NEG	3.18	< LOD	0.05	< LOD	0.05	< LOD	1.8
10/12/13 14:54	1.19	Electric Box	Metal	C	Beige	House	2	Mech	NEG	1.91	< LOD	0.18	< LOD	0.18	< LOD	3.73
10/12/13 14:55	1.19	Electric Pipe	Metal	C	Beige	House	2	Mech	NEG	1.56	< LOD	0.12	< LOD	0.12	< LOD	3.98
10/12/13 14:55	1.19	Water Pipe	Metal	C	Beige	House	2	Mech	NEG	7.56	< LOD	0.94	< LOD	0.94	< LOD	3.9
10/12/13 14:56	1.2	Door	Metal	A	Gray	House	2	Mech	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.97
10/12/13 14:56	1.19	Doorframe	Metal	A	Pink	House	2	Mech	NEG	2.09	< LOD	0.09	< LOD	0.09	< LOD	3.29
10/12/13 14:57	2.98	Wall	Plaster	A	Pink	House	2	5	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 14:57	2.39	Wall	Plaster	B	Pink	House	2	5	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.65
10/12/13 14:58	2.68	Wall	Plaster	C	Pink	House	2	5	NEG	1.55	< LOD	0.03	< LOD	0.03	< LOD	1.65
10/12/13 14:58	2.08	Wall	Plaster	D	Pink	House	2	5	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.11
10/12/13 14:59	3.3	Ceiling	Plaster		Beige	House	2	5	NEG	2.21	< LOD	0.03	< LOD	0.03	< LOD	1.05
10/12/13 15:00	1.19	Door	Metal	C	Gray	House	2	5	NEG	1.78	< LOD	0.1	< LOD	0.1	< LOD	2.84
10/12/13 15:00	1.19	Doorframe	Metal	C	Pink	House	2	5	NEG	4.64	< LOD	0.26	< LOD	0.26	< LOD	3.41
10/12/13 15:00	1.19	Doorframe	Metal	C	Pink	House	2	5	NEG	2.38	< LOD	0.13	< LOD	0.13	< LOD	3.16

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 15:01	1.5	Column	Metal	C	Gray	House	2	5	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.51
10/12/13 15:01	8.96	Window Frame	Metal	C	Gray	House	2	5	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	0.9
10/12/13 15:02	1.19	Closet Door	Metal	D	Purple	House	2	5	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.84
10/12/13 15:03	1.19	Closet Doorframe	Wood	D	Beige	House	2	5	NEG	1	< LOD	0.07	< LOD	0.07	< LOD	1.5
10/12/13 15:03	3.58	Closet Doorframe	Metal	D	Pink	House	2	5	NEG	10	< LOD	1.11	< LOD	0.45	< LOD	1.11
10/12/13 15:07	4.18	Floor	VCT		Beige	House	2	5	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 15:10	1.78	Wall	Plaster	A	Pink	House	2	Bath	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.27
10/12/13 15:11	2.08	Wall	Plaster	B	Pink	House	2	Bath	Null	1	< LOD	0.03	< LOD	0.03	< LOD	1.95
10/12/13 15:11	3.89	Wall	Plaster	C	Pink	House	2	Bath	NEG	1	< LOD	0.03	< LOD	0.03	1.1	0.6
10/12/13 15:11	1.79	Wall	Plaster	D	Pink	House	2	Bath	NEG	2.35	< LOD	0.05	< LOD	0.05	< LOD	2.08
10/12/13 15:12	3.27	Ceiling	Plaster		Beige	House	2	Bath	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	0.6
10/12/13 15:12	0.61	Wall	Ceramic Tile	B	Beige	House	2	Bath	POS	1.76	6.7	3.6	6.7	3.6	< LOD	16.35
10/12/13 15:12	0.3	Wall	Ceramic Tile	B	Red	House	2	Bath	POS	1.58	8.4	8.85	< LOD	8.85	< LOD	24.9
10/12/13 15:13	3.28	Floor	Ceramic Tile	B	Beige	House	2	Bath	NEG	1.51	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 15:13	1.5	Sink	Porcelain	B	White	House	2	Bath	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.63
10/12/13 15:14	1.19	Toilet	Porcelain	B	White	House	2	Bath	NEG	1.38	< LOD	0.09	< LOD	0.09	< LOD	3.75
10/12/13 15:14	1.2	Tub Surround	Vinyl	B	White	House	2	Bath	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.11
10/12/13 15:15	1.18	Counter	Wood	C	White	House	2	Bath	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.37
10/12/13 15:15	1.19	Cabinet	Wood	C	White	House	2	Bath	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.12
10/12/13 15:15	1.2	Cabinet	Wood	B	White	House	2	Bath	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 15:16	1.2	Wall	Wood	B	Brown	House	2	Bath	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.72
10/12/13 15:16	1.2	Wall	Wood	B	Brown	House	2	Bath	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.93
10/12/13 15:16	1.2	Door	Metal	B	Gray	House	2	Bath	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.71
10/12/13 15:17	1.19	Doorframe	Metal	B	Pink	House	2	Bath	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.3
10/12/13 15:17	1.19	Doorframe	Metal	B	Pink	House	2	Bath	NEG	1.79	< LOD	0.13	< LOD	0.13	< LOD	3.6
10/12/13 15:18	1.5	Wall	Plaster	A	Pink	House	2	6	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.4
10/12/13 15:18	2.7	Wall	Plaster	B	Pink	House	2	6	NEG	1.05	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 15:19	2.08	Wall	Plaster	C	Pink	House	2	6	Null	1	< LOD	0.03	< LOD	0.03	< LOD	2.1
10/12/13 15:19	3.28	Wall	Plaster	C	Pink	House	2	6	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 15:19	2.7	Wall	Plaster	D	Pink	House	2	6	Null	2.88	< LOD	0.06	< LOD	0.06	< LOD	1.95
10/12/13 15:20	0.3	Ceiling	Plaster		Beige	House	2	6	Null	1	< LOD	0.03	< LOD	0.03	< LOD	6.3
10/12/13 15:20	3.28	Ceiling	Plaster		Beige	House	2	6	NEG	1.69	< LOD	0.03	< LOD	0.03	1	0.5
10/12/13 15:21	1.19	Counter	Metal	A	Gray	House	2	6	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	2.56
10/12/13 15:21	1.2	Column	Metal	A	Gray	House	2	6	NEG	1.96	< LOD	0.18	< LOD	0.18	< LOD	3.92
10/12/13 15:21	1.2	Door	Metal	A	Gray	House	2	6	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.17
10/12/13 15:22	1.19	Doorframe	Metal	A	Pink	House	2	6	NEG	2.03	< LOD	0.09	< LOD	0.09	< LOD	3.15
10/12/13 15:22	1.2	Doorframe	Metal	A	Pink	House	2	6	NEG	6.2	< LOD	0.41	< LOD	0.41	< LOD	2.91
10/12/13 15:22	3.27	Baseboard	Vinyl	A	Brown	House	2	6	NEG	2.84	< LOD	0.03	< LOD	0.03	< LOD	1.05
10/12/13 15:23	3.59	Floor	VCT		Beige	House	2	6	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 15:24	3.28	Wall	Plaster	A	Pink	House	2	7	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.05
10/12/13 15:24	2.99	Wall	Plaster	B	Pink	House	2	7	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 15:24	1.78	Wall	Plaster	C	Pink	House	2	7	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.12

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 15:24	3.29	Wall	Plaster	D	Pink	House	2	7	NEG	1.17	< LOD	0.03	< LOD	0.03	< LOD	1.05
10/12/13 15:25	3.28	Ceiling	Plaster		Beige	House	2	7	NEG	1.02	< LOD	0.03	< LOD	0.03	1.1	0.5
10/12/13 15:26	15.54	Window Frame	Metal	A	Gray	House	2	7	NEG	1.2	< LOD	0.03	< LOD	0.03	0.8	0.4
10/12/13 15:26	3.29	Window Sill	Metal	A	Gray	House	2	7	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.09
10/12/13 15:27	1.19	Counter	Metal	A	Gray	House	2	7	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.51
10/12/13 15:27	1.19	Column	Metal	D	Pink	House	2	7	NEG	2.62	< LOD	0.45	< LOD	0.45	< LOD	1.8
10/12/13 15:27	1.19	Doorframe	Metal	C	Pink	House	2	7	NEG	1	< LOD	0.11	< LOD	0.11	< LOD	3.24
10/12/13 15:28	1.2	Doorframe	Metal	C	Purple	House	2	7	NEG	1.75	< LOD	0.16	< LOD	0.16	< LOD	2.97
10/12/13 15:28	1.19	Chair Rail	Metal	B	Purple	House	2	7	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.52
10/12/13 15:29	1.2	Closet Doorframe	Metal	B	Pink	House	2	7	NEG	3.93	< LOD	0.21	< LOD	0.21	< LOD	3.12
10/12/13 15:29	1.19	Closet Doorframe	Wood	B	Pink	House	2	7	NEG	1	< LOD	0.08	< LOD	0.08	< LOD	1.8
10/12/13 15:29	2.69	Floor	VCT	B	Beige	House	2	7	NEG	1.38	< LOD	0.03	< LOD	0.03	< LOD	2.33
10/12/13 15:30	2.1	Window Frame	Vinyl	C	Blue	House	2	7	NEG	2.36	< LOD	0.06	< LOD	0.06	< LOD	2.2
10/12/13 15:31	3.28	Wall	Plaster	A	Pink	House	2	8	NEG	1.17	< LOD	0.03	< LOD	0.03	< LOD	1.05
10/12/13 15:32	2.09	Wall	Plaster	B	Pink	House	2	8	NEG	3.21	< LOD	0.14	< LOD	0.14	< LOD	1.65
10/12/13 15:32	0.3	Wall	Plaster	C	Pink	House	2	8	Null	10	< LOD	0.74	< LOD	0.74	< LOD	8.7
10/12/13 15:33	10.44	Wall	Plaster	C	Pink	House	2	8	NEG	1	< LOD	0.4	< LOD	0.03	< LOD	0.4
10/12/13 15:33	3.29	Wall	Plaster	D	Pink	House	2	8	NEG	2.22	0.08	0.05	0.08	0.05	< LOD	1.05
10/12/13 15:34	2.39	Ceiling	Plaster		Pink	House	2	8	NEG	7.99	< LOD	0.4	< LOD	0.4	< LOD	1.8
10/12/13 15:34	3.27	Column	Metal	A	Gray	House	2	8	NEG	2.07	< LOD	1	< LOD	0.03	< LOD	1
10/12/13 15:35	3.89	Column	Metal	D	Gray	House	2	8	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.12
10/12/13 15:35	12.57	Window Frame	Metal	D	Gray	House	2	8	NEG	1.55	< LOD	0.03	< LOD	0.03	< LOD	0.6
10/12/13 15:40	5.67	Window Sill	Metal	A	Gray	House	2	8	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	0.9
10/12/13 15:40	1.19	Counter	Metal	A	Gray	House	2	8	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.64
10/12/13 15:41	1.2	Door	Metal	B	Gray	House	2	8	NEG	6.16	< LOD	0.28	< LOD	0.28	< LOD	3.49
10/12/13 15:41	1.19	Window Frame	Metal	B	Beige	House	2	8	NEG	1.51	0.4	0.2	0.4	0.2	< LOD	3.45
10/12/13 15:42	1.2	Door	Metal	C	Gray	House	2	8	NEG	1.24	0.27	0.17	0.27	0.17	< LOD	3.36
10/12/13 15:42	0.3	Door	Metal	C	Gray	House	2	8	Null	1.13	< LOD	0.59	< LOD	0.59	< LOD	8.9
10/12/13 15:42	1.19	Door	Metal	C	Gray	House	2	8	NEG	1.55	< LOD	0.31	< LOD	0.31	< LOD	3.07
10/12/13 15:43	1.19	Doorframe	Metal	C	Pink	House	2	8	NEG	1.43	< LOD	0.19	< LOD	0.19	< LOD	3.63
10/12/13 15:44	1.79	Wall	Plaster	A	White	House	2	9	NEG	3.88	< LOD	0.28	< LOD	0.28	< LOD	2.33
10/12/13 15:44	1.49	Wall	Plaster	B	White	House	2	9	NEG	1.53	< LOD	0.07	< LOD	0.07	< LOD	2.69
10/12/13 15:44	2.09	Wall	Plaster	C	White	House	2	9	NEG	2.75	< LOD	0.14	< LOD	0.14	< LOD	2.25
10/12/13 15:45	3.28	Wall	Plaster	D	White	House	2	9	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.17
10/12/13 15:45	2.1	Ceiling	Plaster		Beige	House	2	9	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.05
10/12/13 15:46	1.2	Column	Metal	C	Gray	House	2	9	NEG	1.43	< LOD	0.12	< LOD	0.12	< LOD	4.15
10/12/13 15:46	3.31	Window Frame	Metal	C	Gray	House	2	9	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.45
10/12/13 15:47	3.27	Window Frame	Metal	D	Gray	House	2	9	NEG	1.06	< LOD	0.03	< LOD	0.03	< LOD	1.4
10/12/13 15:47	3.28	Column	Metal	D	Gray	House	2	9	NEG	4.22	< LOD	1.32	< LOD	0.05	< LOD	1.32
10/12/13 15:47	3.3	Window Sill	Metal	D	Gray	House	2	9	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.03
10/12/13 15:47	1.2	Door	Metal	B	Blue	House	2	9	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.19
10/12/13 15:48	1.19	Doorframe	Metal	B	Beige	House	2	9	NEG	1.06	< LOD	0.16	< LOD	0.16	< LOD	3.59

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 15:48	3.28	Floor	VCT		Beige	House	2	9	NEG	1.13	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 15:49	3.28	Baseboard	Vinyl	C	Black	House	2	9	NEG	2.73	< LOD	0.04	< LOD	0.04	< LOD	1.38
10/12/13 15:50	2.39	Wall	Plaster	A	Pink	House	2	Hall	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.18
10/12/13 15:50	3.29	Wall	Plaster	D	Pink	House	2	Hall	NEG	1.84	< LOD	0.03	< LOD	0.03	< LOD	1.05
10/12/13 15:51	2.98	Wall	Plaster	C	Pink	House	2	Hall	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.95
10/12/13 15:51	3.29	Wall	Plaster	B	Pink	House	2	Hall	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 15:52	1.79	Ceiling	Plaster		Beige	House	2	Hall	NEG	2.43	< LOD	0.05	< LOD	0.05	< LOD	2.14
10/12/13 15:52	3.3	Wall	Brick	D	Pink	House	2	Hall	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 15:53	3.29	Wall	Brick	A	Pink	House	2	Hall	NEG	1.08	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 15:53	2.69	Door	Metal	A	Gray	House	2	Hall	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.07
10/12/13 15:53	3.28	Closet Doorframe	Metal	A	Gray	House	2	Hall	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.43
10/12/13 15:55	2.08	Baseboard	Vinyl	C	Beige	House	2	Hall	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.38
10/12/13 15:55	2.4	Floor	VCT		Beige	House	2	Hall	NEG	1.27	< LOD	0.03	< LOD	0.03	< LOD	2.62
10/12/13 15:57	1.2	Beam	Metal	B	Yellow	House	2	Wall Cavity	NEG	3.59	< LOD	0.28	< LOD	0.28	< LOD	4.05
10/12/13 15:57	1.18	Beam	Metal	B	Yellow	House	2	Wall Cavity	NEG	1.08	< LOD	0.12	< LOD	0.12	< LOD	3.71
10/12/13 15:58	1.2	Duct	Metal	B	Green	House	2	Wall Cavity	NEG	6.8	< LOD	0.76	< LOD	0.76	< LOD	2.14
10/12/13 16:03	3.29	Wall	Brick	A	Pink	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 16:03	0.9	Wall	Brick	A	Pink	House		Exterior	Null	1	< LOD	0.03	< LOD	0.03	< LOD	5.4
10/12/13 16:04	3.29	Wall	Brick	A	Pink	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 16:04	0.6	Wall	Brick	A	Pink	House		Exterior	Null	1	< LOD	0.03	< LOD	0.03	< LOD	6.9
10/12/13 16:04	2.7	Wall	Brick	A	Pink	House		Exterior	Null	2.58	< LOD	0.05	< LOD	0.05	< LOD	2.25
10/12/13 16:05	1.19	Wall	Concrete	A	Yellow	House		Exterior	NEG	1.17	< LOD	0.1	< LOD	0.1	< LOD	4.1
10/12/13 16:05	2.39	Window Frame	Metal	A	Gray	House		Exterior	NEG	1.27	< LOD	0.03	< LOD	0.03	< LOD	2.18
10/12/13 16:05	2.69	Window Frame	Metal	A	Gray	House		Exterior	NEG	1.23	< LOD	0.03	< LOD	0.03	< LOD	1.95
10/12/13 16:06	7.45	Window Sill	Metal	A	Gray	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	0.9
10/12/13 16:06	3.29	Base	Concrete	A	Gray	House		Exterior	NEG	1.78	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 16:08	3.3	Soffit	Plaster	A	White	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.07
10/12/13 16:08	2.09	Fascia	Metal	A	Gray	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.77
10/12/13 16:09	1.2	Fascia	Metal	A	Black	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.79
10/12/13 16:10	3.29	Roof	Concrete	A	Blue	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.52
10/12/13 16:10	4.19	Roof	Concrete	A	Blue	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 16:11	1.2	Pipe Penetration	Concrete	A	Gray	House	2	Roof	NEG	1.31	< LOD	0.39	< LOD	0.39	< LOD	4.2
10/12/13 16:11	1.19	Vent	Metal	A	White	House	2	Roof	NEG	5.63	< LOD	0.35	< LOD	0.35	< LOD	2.25
10/12/13 16:12	0.89	Wall	Brick	A	White	House	2	Roof	Null	1	< LOD	0.03	< LOD	0.03	< LOD	5.1
10/12/13 16:12	2.69	Wall	Brick	A	White	House	2	Roof	NEG	2.67	< LOD	0.05	< LOD	0.05	< LOD	2.06
10/12/13 16:12	2.69	Wall	Brick	A	Pink	House	2	Roof	NEG	4.35	< LOD	0.09	< LOD	0.09	< LOD	2.4
10/12/13 16:12	1.19	Wall	Brick	A	Pink	House	2	Roof	NEG	2.63	< LOD	0.1	< LOD	0.1	< LOD	1.78
10/12/13 16:16	3.28	Wall	Brick	D	Pink	House		Exterior	NEG	1.3	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 16:16	2.7	Wall	Brick	D	Pink	House		Exterior	NEG	1.58	< LOD	0.03	< LOD	0.03	< LOD	2.2
10/12/13 16:17	1.19	Door	Metal	D	Gray	House		Exterior	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.6
10/12/13 16:17	1.2	Doorframe	Metal	D	Gray	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.62
10/12/13 16:17	1.2	Stair Rail	Metal	D	Gray	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.81

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 16:18	3.29	Beam	Metal	D	Gray	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 16:18	2.08	Beam	Metal	D	Gray	House		Exterior	NEG	1.27	< LOD	0.03	< LOD	0.03	< LOD	2.01
10/12/13 16:18	3.88	Window Sill	Metal	D	Gray	House		Exterior	Null	1.11	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 16:19	12.85	Window Sill	Metal	D	Gray	House		Exterior	NEG	1.08	< LOD	0.03	< LOD	0.03	< LOD	0.75
10/12/13 16:19	3.29	Wall	Concrete	D	Pink	House		Exterior	NEG	2.05	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 16:21	6.55	Wall	Brick	B	Pink	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	1.1	0.5
10/12/13 16:23	3.29	Wall	Concrete	B	Pink	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 16:24	3.3	Window Frame	Metal	B	Gray	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.12
10/12/13 16:25	3.57	Window Sill	Metal	B	Gray	House		Exterior	NEG	2.8	< LOD	1.12	< LOD	0.03	< LOD	1.12
10/12/13 16:25	1.19	Cat Walkway	Wood	B	White	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.95
10/12/13 16:26	1.2	Ceiling	Wood	B	White	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 16:27	1.2	Fascia	Wood	B	White	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 16:27	0.9	Fascia	Metal	B	Black	House		Exterior	Null	1	< LOD	0.03	< LOD	0.03	< LOD	4.05
10/12/13 16:27	1.2	Fascia	Metal	B	Black	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.4
10/12/13 16:28	3.29	Wall	Metal	B	Gray	House		Exterior	NEG	2.54	< LOD	1.27	< LOD	0.03	< LOD	1.27
10/12/13 16:28	3.27	Wall	Concrete	C	White	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 16:29	3.27	Wall	Concrete	C	White	House		Exterior	NEG	2.06	< LOD	0.03	< LOD	0.03	< LOD	1.47
10/12/13 16:29	3.27	Wall	Concrete	C	White	House		Exterior	NEG	5.11	< LOD	0.06	< LOD	0.06	< LOD	1.51
10/12/13 16:30	1.19	Window Frame	Metal	C	Gray	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.8
10/12/13 16:30	1.2	Window Frame	Wood	C	Gray	House		Exterior	NEG	1.75	< LOD	0.05	< LOD	0.05	< LOD	1.65
10/12/13 16:31	2.08	Window Sill	Concrete	C	Gray	House		Exterior	NEG	2.95	< LOD	0.06	< LOD	0.06	< LOD	2.86
10/12/13 16:32	1.49	Door	Metal	C	Gray	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.62
10/12/13 16:32	1.2	Door	Metal	C	Gray	House		Exterior	NEG	1.27	< LOD	0.31	< LOD	0.31	< LOD	3.9
10/12/13 16:33	3.26	Sliding Door	Metal	C	White	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.04
10/12/13 16:34	2.08	Sliding Door	Metal	C	White	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.18
10/12/13 16:34	1.19	Tank	Metal	C	Blue	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.97
10/12/13 16:34	1.2	Tank	Metal	C	Blue	House		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.87
10/12/13 16:37	2.09	Wall	Plaster	B	Pink	House	1	Stairwell	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.17
10/12/13 16:37	2.38	Wall	Plaster	C	Pink	House	1	Stairwell	NEG	1.19	< LOD	0.03	< LOD	0.03	< LOD	2.11
10/12/13 16:37	2.99	Wall	Plaster	D	Pink	House	1	Stairwell	NEG	2.64	< LOD	0.04	< LOD	0.04	< LOD	1.95
10/12/13 16:37	2.39	Ceiling	Plaster		Beige	House	1	Stairwell	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 16:42	1.8	Wall	Plaster	A	Pink	House	1	Laundry	Null	1	< LOD	0.03	< LOD	0.03	< LOD	2.1
10/12/13 16:42	2.09	Wall	Plaster	B	Pink	House	1	Laundry	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.18
10/12/13 16:42	3.28	Wall	Plaster	C	Pink	House	1	Laundry	NEG	1.25	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 16:43	2.38	Wall	Plaster	D	Pink	House	1	Laundry	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.11
10/12/13 16:43	2.39	Ceiling	Concrete		White	House	1	Laundry	Null	2.52	< LOD	0.05	< LOD	0.05	< LOD	2.72
10/12/13 16:43	2.08	Ceiling	Concrete		White	House	1	Laundry	Null	1	< LOD	0.03	< LOD	0.03	< LOD	2.85
10/12/13 16:43	3.28	Ceiling	Concrete		White	House	1	Laundry	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.49
10/12/13 16:44	2.7	Floor	VCT		Beige	House	1	Laundry	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.61
10/12/13 16:44	1.5	Baseboard	VCT	A	Brown	House	1	Laundry	NEG	1.09	< LOD	0.03	< LOD	0.03	< LOD	2.74
10/12/13 16:45	1.2	Door	Metal	C	Gray	House	1	Laundry	NEG	1.97	< LOD	0.14	< LOD	0.14	< LOD	3.42
10/12/13 16:45	3.28	Doorframe	Metal	C	Gray	House	1	Laundry	NEG	3.22	< LOD	0.04	< LOD	0.04	< LOD	1.35



Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 16:45	1.19	Door	Metal	C	Gray	House	1	Laundry	NEG	1.16	< LOD	0.06	< LOD	0.06	< LOD	3.72
10/12/13 16:45	1.2	Doorframe	Metal	C	Gray	House	1	Laundry	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	3.4
10/12/13 16:46	1.19	Door	Metal	C	Pink	House	1	Laundry	NEG	1	< LOD	0.07	< LOD	0.07	< LOD	3.49
10/12/13 16:46	1.2	Doorframe	Metal	A	Pink	House	1	Laundry	NEG	3.11	< LOD	0.17	< LOD	0.17	< LOD	3.15
10/12/13 16:46	1.19	Doorframe	Metal	A	Gray	House	1	Laundry	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	3.52
10/12/13 16:47	1.81	Door	Metal	A	Blue	House	1	Laundry	NEG	5.99	< LOD	0.19	< LOD	0.19	< LOD	2.43
10/12/13 16:47	1.2	Doorframe	Metal	A	Blue	House	1	Laundry	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.37
10/12/13 16:48	2.09	Wall	Plaster	A	White	House	1	Cat	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.14
10/12/13 16:48	3.28	Wall	Plaster	B	White	House	1	Cat	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 16:48	0.89	Wall	Plaster	C	White	House	1	Cat	Null	2.09	< LOD	0.1	< LOD	0.1	< LOD	4.88
10/12/13 16:48	3.3	Wall	Plaster	D	White	House	1	Cat	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.05
10/12/13 16:49	3.29	Ceiling	Concrete		White	House	1	Cat	NEG	1.95	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 16:50	3.29	Floor	VCT		White	House	1	Cat	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 16:50	5.99	Window Frame	Metal	B	Gray	House	1	Cat	NEG	1.37	< LOD	0.03	< LOD	0.03	< LOD	1.11
10/12/13 16:50	3.3	Window Sill	Metal	B	Gray	House	1	Cat	NEG	1.62	< LOD	0.03	< LOD	0.03	< LOD	1.02
10/12/13 16:51	1.2	Doorframe	Metal	C	Gray	House	1	Cat	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	3.65
10/12/13 16:51	1.19	Door	Metal	C	Gray	House	1	Cat	NEG	2.6	< LOD	0.18	< LOD	0.18	< LOD	3.43
10/12/13 16:52	1.19	Window Frame	Wood	C	White	House	1	Cat	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.08
10/12/13 16:52	1.2	Pipe	Metal	D	White	House	1	Cat	NEG	2.98	< LOD	0.2	< LOD	0.2	< LOD	3.53
10/12/13 16:53	1.2	Door	Metal	D	Gray	House	1	Cat	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.97
10/12/13 16:53	1.19	Doorframe	Metal	D	Gray	House	1	Cat	NEG	1.04	< LOD	0.06	< LOD	0.06	< LOD	3.37
10/12/13 16:53	1.2	Doorframe	Metal	D	White	House	1	Cat	NEG	1.3	< LOD	0.08	< LOD	0.08	< LOD	3.14
10/12/13 16:55	3.58	Wall	Concrete	B	White	House	1	10	NEG	2.5	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 16:56	2.08	Wall	Plaster	C	White	House	1	10	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.14
10/12/13 16:56	1.2	Wall	Plaster	D	White	House	1	10	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.97
10/12/13 16:57	1.2	Doorframe	Metal	D	Gray	House	1	10	NEG	2.28	< LOD	0.17	< LOD	0.17	< LOD	3.48
10/12/13 16:57	1.19	Doorframe	Metal	D	Gray	House	1	10	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.61
10/12/13 16:57	1.19	Door	Metal	D	Gray	House	1	10	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.86
10/12/13 16:58	10.09	Wall	Concrete	C	Gray	House	1	11	NEG	3.59	< LOD	0.03	< LOD	0.03	< LOD	0.75
10/12/13 16:58	1.79	Wall	Plaster	C	Gray	House	1	11	NEG	5.1	< LOD	0.08	< LOD	0.08	< LOD	2.22
10/12/13 16:59	1.5	Wall	Plaster	C	Gray	House	1	11	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.27
10/12/13 16:59	4.2	Wall	Plaster	D	Gray	House	1	11	NEG	2.95	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 16:59	1.8	Ceiling	Plaster	D	White	House	1	11	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.18
10/12/13 17:00	1.19	Door	Metal	C	Gray	House	1	11	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	3.16
10/12/13 17:00	1.19	Window Frame	Metal	C	Gray	House	1	11	NEG	1	< LOD	0.08	< LOD	0.08	< LOD	4.07
10/12/13 17:00	1.19	Window Frame	Metal	C	Gray	House	1	11	NEG	1	< LOD	0.09	< LOD	0.09	< LOD	3.98
10/12/13 17:00	1.19	Electric Pole	Metal	D	Gray	House	1	11	NEG	2.56	< LOD	0.21	< LOD	0.21	< LOD	3.9
10/12/13 17:01	3.3	Wall	Concrete	A	White	House	1	12	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.54
10/12/13 17:02	3.28	Wall	Plaster	B	White	House	1	12	NEG	2.46	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 17:02	0.9	Wall	Plaster	C	White	House	1	12	Null	1	< LOD	0.03	< LOD	0.03	< LOD	4.5
10/12/13 17:02	1.2	Wall	Plaster	C	White	House	1	12	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.97
10/12/13 17:03	2.98	Wall	Plaster	C	White	House	1	12	NEG	1.25	< LOD	0.03	< LOD	0.03	< LOD	1.87

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 17:03	1.19	Doorframe	Wood	C	Gray	House	1	12	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.48
10/12/13 17:03	1.5	Door	Metal	C	Blue	House	1	12	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.47
10/12/13 17:04	2.38	Wall	Plaster	A	White	House	1	Hall	NEG	4.38	< LOD	0.08	< LOD	0.08	< LOD	2.06
10/12/13 17:04	3.28	Wall	Plaster	B	White	House	1	Hall	NEG	1.83	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 17:05	1.19	Wall	Plaster	C	White	House	1	Hall	NEG	1.12	< LOD	0.03	< LOD	0.03	< LOD	2.95
10/12/13 17:05	2.09	Wall	Plaster	D	White	House	1	Hall	NEG	3.93	< LOD	0.09	< LOD	0.09	< LOD	2.05
10/12/13 17:05	2.39	Ceiling	Concrete		White	House	1	Hall	NEG	1.04	< LOD	0.03	< LOD	0.03	< LOD	2.84
10/12/13 17:06	1.19	Door	Metal	C	Gray	House	1	Hall	NEG	7.25	< LOD	0.41	< LOD	0.41	< LOD	3.7
10/12/13 17:06	1.2	Doorframe	Metal	C	White	House	1	Hall	NEG	2.22	< LOD	0.18	< LOD	0.18	< LOD	3.19
10/12/13 17:07	3.57	Wall	Concrete	A	White	House	1	13	NEG	1.82	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 17:08	3.88	Wall	Concrete	C	White	House	1	13	NEG	2.97	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 17:08	3.27	Wall	Concrete	D	White	House	1	13	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 17:09	1.78	Wall	Plaster	B	White	House	1	13	NEG	1.49	< LOD	0.03	< LOD	0.03	< LOD	2.4
10/12/13 17:10	1.19	Column	Concrete	B	White	House	1	13	Null	1	< LOD	0.04	< LOD	0.04	< LOD	6.15
10/12/13 17:10	3.87	Column	Concrete	B	White	House	1	13	NEG	1.82	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 17:10	0.3	Ceiling	Concrete		White	House	1	13	Null	1	< LOD	0.05	< LOD	0.05	< LOD	12.25
10/12/13 17:11	0.9	Ceiling	Concrete		White	House	1	13	Null	1	< LOD	0.05	< LOD	0.05	< LOD	6.45
10/12/13 17:11	3.28	Ceiling	Concrete		White	House	1	13	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.57
10/12/13 17:11	1.19	Electric Pole	Metal	B	White	House	1	13	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	4.06
10/12/13 17:12	1.2	Doorframe	Wood	B	Gray	House	1	13	NEG	1.25	0.5	0.3	0.5	0.3	< LOD	2.4
10/12/13 17:12	3.28	Door	Wood	C	Gray	House	1	13	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.21
10/12/13 17:13	3.27	Wall	Concrete	A	White	House	1	14	NEG	3.11	< LOD	0.03	< LOD	0.03	< LOD	1.39
10/12/13 17:14	4.18	Wall	Concrete	D	White	House	1	14	NEG	1.26	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 17:14	2.09	Wall	Drywall	B	White	House	1	14	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.88
10/12/13 17:14	3.26	Wall	Drywall	C	White	House	1	14	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.08
10/12/13 17:14	1.2	Window Sill	Wood	C	White	House	1	14	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.95
10/12/13 17:15	1.19	Door	Wood	C	White	House	1	14	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.71
10/12/13 17:15	1.2	Doorframe	Metal	C	White	House	1	14	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.95
10/12/13 17:15	1.19	Doorframe	Metal	C	White	House	1	14	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.65
10/12/13 17:16	3	Wall	Drywall	D	Blue	House	1	13	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.49
10/12/13 17:16	1.2	Wall	Drywall	D	White	House	1	13	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.38
10/12/13 17:16	1.19	Window Frame	Wood	D	White	House	1	13	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.21
10/12/13 17:17	3.29	Window	Vinyl	D	White	House	1	13	NEG	2.48	< LOD	1.11	< LOD	0.03	< LOD	1.11
10/12/13 17:17	1.2	Cabinet	Wood	B	White	House	1	13	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.25
10/12/13 17:17	1.2	Counter	Wood	B	White	House	1	13	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.55
10/12/13 17:18	1.19	Cabinet	Wood	C	White	House	1	13	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.44
10/12/13 17:18	1.19	Window Sill	Wood	C	White	House	1	13	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.56
10/12/13 17:18	1.19	Window Frame	Metal	C	Gray	House	1	13	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.95
10/12/13 17:19	1.19	Pipe	Plastic	C	White	House	1	13	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.94
10/12/13 17:19	3.28	Floor	VCT	C	Beige	House	1	13	NEG	1.52	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 17:46	1.2	Wall	Metal	A	Gray	Fab Bldg		Open Rm	NEG	1	< LOD	0.13	< LOD	0.13	< LOD	2.32
10/12/13 17:46	1.19	Wall	Metal	B	Gray	Fab Bldg		Open Rm	NEG	3.14	< LOD	0.5	< LOD	0.5	< LOD	2.68

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 17:47	0.6	Door	Metal	A	Gray	Fab Bldg		Open Rm	Null	2.04	< LOD	0.42	< LOD	0.42	< LOD	5.26
10/12/13 17:47	2.4	Door	Metal	A	Gray	Fab Bldg		Open Rm	NEG	6.22	< LOD	0.63	< LOD	0.63	< LOD	2.18
10/12/13 17:48	3.28	Doorframe	Metal	A	Red	Fab Bldg		Open Rm	NEG	9.26	< LOD	1.43	< LOD	0.18	< LOD	1.43
10/12/13 17:48	1.19	Doorframe	Metal	A	Red	Fab Bldg		Open Rm	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.63
10/12/13 17:48	1.18	Doorframe	Metal	A	Gray	Fab Bldg		Open Rm	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.86
10/12/13 17:48	1.19	Doorframe	Metal	A	Gray	Fab Bldg		Open Rm	NEG	1.04	< LOD	0.08	< LOD	0.08	< LOD	3.44
10/12/13 17:49	1.2	Column	Metal	A	Gray	Fab Bldg		Open Rm	NEG	1.08	< LOD	0.06	< LOD	0.06	< LOD	3.93
10/12/13 17:49	1.19	Column	Metal	A	Gray	Fab Bldg		Open Rm	NEG	1.82	< LOD	0.12	< LOD	0.12	< LOD	3.58
10/12/13 17:49	1.19	Beam	Metal	A	Gray	Fab Bldg		Open Rm	NEG	1.05	< LOD	0.1	< LOD	0.1	< LOD	4.06
10/12/13 17:49	1.2	Column	Metal	A	Gray	Fab Bldg		Open Rm	NEG	1.36	< LOD	0.06	< LOD	0.06	< LOD	3.97
10/12/13 17:50	2.11	Wall	Metal	B	Gray	Fab Bldg		Open Rm	NEG	7.67	< LOD	0.83	< LOD	0.83	< LOD	1.72
10/12/13 17:50	1.19	Wall	Wood	B	Gray	Fab Bldg		Open Rm	NEG	1.23	< LOD	0.08	< LOD	0.08	< LOD	1.82
10/12/13 17:51	1.2	Door	Metal	B	Gray	Fab Bldg		Open Rm	NEG	5.06	< LOD	0.19	< LOD	0.19	< LOD	3.42
10/12/13 17:51	1.19	Doorframe	Metal	B	Gray	Fab Bldg		Open Rm	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.8
10/12/13 17:51	1.2	Window Frame	Metal	B	Gray	Fab Bldg		Open Rm	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.75
10/12/13 17:52	1.19	Window Frame	Metal	B	Gray	Fab Bldg		Open Rm	NEG	1.2	< LOD	0.07	< LOD	0.07	< LOD	3.79
10/12/13 17:53	1.19	Column	Metal	B	Gray	Fab Bldg		Open Rm	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	4
10/12/13 17:53	1.19	Cabinet	Metal	B	Yellow	Fab Bldg		Open Rm	NEG	1.43	< LOD	0.09	< LOD	0.09	< LOD	3.91
10/12/13 17:54	1.2	Cabinet	Metal	B	Yellow	Fab Bldg		Open Rm	NEG	2.2	< LOD	0.15	< LOD	0.15	< LOD	3.91
10/12/13 17:54	1.19	Cage	Metal	B	Red	Fab Bldg		Open Rm	NEG	1.43	0.4	0.2	0.4	0.2	< LOD	4.16
10/12/13 17:54	3.29	Cage	Metal	B	Red	Fab Bldg		Open Rm	NEG	1.46	0.8	0.1	0.8	0.1	< LOD	1.65
10/12/13 17:56	1.2	Ceiling	Metal		Gray	Fab Bldg		Open Rm	NEG	1	< LOD	0.1	< LOD	0.1	< LOD	3.31
10/12/13 17:56	1.2	Roll Door	Metal	C	Gray	Fab Bldg		Open Rm	NEG	1.6	< LOD	0.14	< LOD	0.14	< LOD	3.6
10/12/13 17:56	1.2	Roll Doorframe	Metal	C	Gray	Fab Bldg		Open Rm	NEG	1.44	0.6	0.3	0.6	0.3	< LOD	4.35
10/12/13 17:57	1.2	Roll Doorframe	Metal	C	Red	Fab Bldg		Open Rm	NEG	1.53	< LOD	0.36	< LOD	0.36	< LOD	3.05
10/12/13 17:58	1.48	Wall	Wood	C	Gray	Fab Bldg		Open Rm	POS	1.25	1.4	0.4	1.4	0.4	< LOD	2.4
10/12/13 17:58	0.9	Wall	Wood	C	Gray	Fab Bldg		Open Rm	POS	1.53	2.1	1	2.1	1	< LOD	4.65
10/12/13 17:58	1.2	Door	Metal	C	Beige	Fab Bldg		Open Rm	NEG	1.83	< LOD	0.08	< LOD	0.08	< LOD	2.85
10/12/13 17:59	1.19	Column	Metal	C	Gray	Fab Bldg		Open Rm	NEG	1.88	< LOD	0.1	< LOD	0.1	< LOD	4.03
10/12/13 18:00	0.6	Wall	Wood	C	Green	Fab Bldg		1	POS	2.21	2.9	1.8	2.9	1.8	< LOD	7.35
10/12/13 18:00	0.59	Wall	Wood	C	Green	Fab Bldg		1	POS	1.59	2.9	1.5	2.9	1.5	< LOD	6.75
10/12/13 18:01	1.19	Door	Metal	C	Gray	Fab Bldg		1	NEG	1.41	< LOD	0.09	< LOD	0.09	< LOD	3.49
10/12/13 18:01	1.19	Doorframe	Metal	C	Gray	Fab Bldg		1	NEG	2.27	< LOD	0.15	< LOD	0.15	< LOD	4.14
10/12/13 18:02	3.27	Wall	Brick	D	Green	Fab Bldg		1	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 18:02	3.29	Wall	Brick	A	Green	Fab Bldg		1	NEG	2.84	< LOD	0.04	< LOD	0.04	< LOD	1.5
10/12/13 18:02	2.39	Wall	Brick	B	Green	Fab Bldg		1	Null	1.3	< LOD	0.03	< LOD	0.03	< LOD	2.57
10/12/13 18:03	1.19	Doorframe	Metal	B	Green	Fab Bldg		1	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	3.76
10/12/13 18:03	1.19	Doorframe	Metal	D	Green	Fab Bldg		1	NEG	1.98	< LOD	0.12	< LOD	0.12	< LOD	3.99
10/12/13 18:03	1.19	Cabinet	Wood	D	Gray	Fab Bldg		1	NEG	1.36	< LOD	0.08	< LOD	0.08	< LOD	1.95
10/12/13 18:03	1.19	Cabinet	Wood	D	Gray	Fab Bldg		1	NEG	1.62	< LOD	0.21	< LOD	0.21	< LOD	2.1
10/12/13 18:04	1.2	Cabinet	Wood	D	Gray	Fab Bldg		1	NEG	1.83	< LOD	0.06	< LOD	0.06	< LOD	1.66
10/12/13 18:05	3.27	Wall	Brick	A	Green	Fab Bldg		2	NEG	1.99	< LOD	0.03	< LOD	0.03	< LOD	1.5



Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 18:06	4.17	Wall	Brick	B	Green	Fab Bldg		2	NEG	1.97	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 18:06	3.28	Wall	Brick	C	Green	Fab Bldg		2	NEG	1.28	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 18:06	3.28	Wall	Brick	D	Green	Fab Bldg		2	NEG	1.46	< LOD	0.03	< LOD	0.03	< LOD	1.48
10/12/13 18:07	1.19	Ceiling	Metal		Gray	Fab Bldg		2	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.51
10/12/13 18:07	1.2	Beam	Metal	A	Gray	Fab Bldg		2	NEG	2.29	< LOD	0.14	< LOD	0.14	< LOD	3.64
10/12/13 18:07	1.2	Ceiling	Metal		Gray	Fab Bldg		2	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.47
10/12/13 18:08	1.19	Window Frame	Metal	C	Gray	Fab Bldg		2	NEG	1.55	< LOD	0.09	< LOD	0.09	< LOD	3.45
10/12/13 18:09	0.9	Window Casing	Metal	C	Gray	Fab Bldg		2	Null	1	< LOD	0.03	< LOD	0.03	< LOD	6.31
10/12/13 18:09	1.18	Window Casing	Metal	C	Gray	Fab Bldg		2	NEG	1.01	< LOD	0.03	< LOD	0.03	< LOD	3.9
10/12/13 18:09	1.2	Window Sill	Metal	C	Gray	Fab Bldg		2	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.73
10/12/13 18:09	1.2	Window Frame	Metal	D	Gray	Fab Bldg		2	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	4.2
10/12/13 18:10	1.2	Window Casing	Metal	D	Gray	Fab Bldg		2	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.6
10/12/13 18:10	1.19	Window Sill	Metal	D	Gray	Fab Bldg		2	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	3.74
10/12/13 18:11	1.19	Stall Divider	Metal	B	Green	Fab Bldg		2	NEG	1	< LOD	0.12	< LOD	0.12	< LOD	3.19
10/12/13 18:11	0.3	Stall Divider	Metal	B	Green	Fab Bldg		2	Null	1	< LOD	0.17	< LOD	0.17	< LOD	8.59
10/12/13 18:11	1.78	Toilet	Porcelain	B	White	Fab Bldg		2	NEG	2.35	< LOD	0.11	< LOD	0.11	< LOD	3.01
10/12/13 18:12	1.79	Wall	Brick	B	Pink	Fab Bldg		2	Null	1	< LOD	0.03	< LOD	0.03	< LOD	3
10/12/13 18:13	2.98	Wall	Brick	B	Pink	Fab Bldg		2	Null	1.13	< LOD	0.03	< LOD	0.03	< LOD	2.4
10/12/13 18:13	2.4	Wall	Brick	B	Pink	Fab Bldg		2	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.73
10/12/13 18:13	1.2	Wall	Brick	A	Pink	Fab Bldg		2	Null	1.6	< LOD	0.05	< LOD	0.05	< LOD	3
10/12/13 18:13	1.79	Wall	Brick	A	Pink	Fab Bldg		2	Null	1	< LOD	0.03	< LOD	0.03	< LOD	2.85
10/12/13 18:13	3.28	Wall	Brick	A	Pink	Fab Bldg		2	NEG	2.45	< LOD	0.03	< LOD	0.03	< LOD	1.2
10/12/13 18:14	0.6	Wall	Ceramic Tile	A	Green	Fab Bldg		2	POS	2.21	7.1	4.6	7.1	4.6	< LOD	16.05
10/12/13 18:14	0.6	Wall	Ceramic Tile	A	Green	Fab Bldg		2	POS	2.02	12	16.35	6.5	3.9	< LOD	16.35
10/12/13 18:15	2.39	Floor	Concrete		Gray	Fab Bldg		3	NEG	1.14	< LOD	0.03	< LOD	0.03	< LOD	2.8
10/12/13 18:16	4.2	Wall	Brick	A	Beige	Fab Bldg		4	NEG	7.68	< LOD	0.11	< LOD	0.11	< LOD	1.36
10/12/13 18:16	3.26	Wall	Brick	A	Beige	Fab Bldg		4	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 18:16	2.68	Wall	Brick	D	Beige	Fab Bldg		4	NEG	1.24	< LOD	0.03	< LOD	0.03	< LOD	2.55
10/12/13 18:17	1.19	Door	Metal	B	Gray	Fab Bldg		4	NEG	1.2	< LOD	0.1	< LOD	0.1	< LOD	3.51
10/12/13 18:17	1.19	Door	Metal	B	Beige	Fab Bldg		4	NEG	1.07	< LOD	0.08	< LOD	0.08	< LOD	3.9
10/12/13 18:18	1.19	Door	Metal	A	Gray	Fab Bldg		4	NEG	2.43	< LOD	0.13	< LOD	0.13	< LOD	3.53
10/12/13 18:18	1.19	Door	Metal	A	Gray	Fab Bldg		4	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	3.93
10/12/13 18:18	0.9	Window Frame	Metal	A	Gray	Fab Bldg		4	Null	1.42	< LOD	0.09	< LOD	0.09	< LOD	4.83
10/12/13 18:18	1.19	Window Frame	Metal	A	Gray	Fab Bldg		4	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.34
10/12/13 18:19	3.27	Floor	Concrete		Gray	Fab Bldg		4	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.61
10/12/13 18:20	3.29	Wall	Brick	B	Beige	Fab Bldg		5	NEG	3.06	< LOD	0.04	< LOD	0.04	< LOD	1.5
10/12/13 18:20	3.28	Wall	Brick	D	Beige	Fab Bldg		5	NEG	1.11	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 18:20	1.49	Wall	Drywall	A	Beige	Fab Bldg		5	Null	1	< LOD	0.03	< LOD	0.03	< LOD	2.2
10/12/13 18:21	1.19	Beam	Metal	A	White	Fab Bldg		5	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	4.16
10/12/13 18:21	1.2	Ceiling	Metal		White	Fab Bldg		5	NEG	1.09	< LOD	0.05	< LOD	0.05	< LOD	3.78
10/12/13 18:22	5.08	Pole	Metal	B	White	Fab Bldg		5	NEG	10	< LOD	1.23	< LOD	0.26	< LOD	1.23
10/12/13 18:22	1.19	Door	Metal	B	Gray	Fab Bldg		5	NEG	2.21	< LOD	0.23	< LOD	0.23	< LOD	3.76

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 18:22	0.9	Doorframe	Metal	B	Gray	Fab Bldg		5	Null	1.6	< LOD	0.2	< LOD	0.2	< LOD	5.93
10/12/13 18:22	1.18	Doorframe	Metal	B	Gray	Fab Bldg		5	Null	1	< LOD	0.12	< LOD	0.12	< LOD	5.99
10/12/13 18:23	3.29	Wall	Brick	A	Beige	Fab Bldg		6	NEG	2.91	< LOD	0.05	< LOD	0.05	< LOD	1.49
10/12/13 18:23	2.39	Wall	Brick	B	Beige	Fab Bldg		6	NEG	2.03	< LOD	0.04	< LOD	0.04	< LOD	2.69
10/12/13 18:24	3.27	Wall	Brick	C	Beige	Fab Bldg		6	NEG	1.83	< LOD	0.03	< LOD	0.03	< LOD	1.53
10/12/13 18:24	1.19	Door	Metal	D	Red	Fab Bldg		6	NEG	4.98	< LOD	0.27	< LOD	0.27	< LOD	3.46
10/12/13 18:24	1.19	Doorframe	Metal	B	Gray	Fab Bldg		6	NEG	1	< LOD	0.07	< LOD	0.07	< LOD	4.06
10/12/13 18:25	1.19	Pole	Metal	B	Beige	Fab Bldg		6	NEG	2.96	< LOD	0.22	< LOD	0.22	< LOD	3.86
10/12/13 18:25	1.2	Window Frame	Metal	B	Gray	Fab Bldg		6	NEG	3.14	< LOD	0.18	< LOD	0.18	< LOD	3.83
10/12/13 18:25	3.29	Floor	Concrete		Gray	Fab Bldg		6	NEG	2.74	< LOD	0.04	< LOD	0.04	< LOD	1.65
10/12/13 18:27	1.2	Wall	Metal	D	Gray	Fab Bldg		Open Rm	NEG	1.41	< LOD	0.16	< LOD	0.16	< LOD	2.76
10/12/13 18:27	1.19	Door	Metal	D	Gray	Fab Bldg		Open Rm	NEG	2.85	< LOD	0.17	< LOD	0.17	< LOD	3.67
10/12/13 18:27	1.18	Window Frame	Metal	D	Gray	Fab Bldg		Open Rm	NEG	1.35	< LOD	0.09	< LOD	0.09	< LOD	4.23
10/12/13 18:27	1.18	Cabinet	Metal	D	Gray	Fab Bldg		Open Rm	NEG	1	< LOD	0.08	< LOD	0.08	< LOD	4.09
10/12/13 18:28	1.49	Window Frame	Metal	D	Gray	Fab Bldg		Open Rm	NEG	5.38	< LOD	0.64	< LOD	0.64	< LOD	2.9
10/12/13 18:28	3.29	Floor	Concrete		Gray	Fab Bldg		Open Rm	NEG	1.36	0.04	0.03	0.04	0.03	< LOD	1.67
10/12/13 18:28	2.38	Caution Paint	Concrete	D	Yellow	Fab Bldg		Open Rm	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	2.84
10/12/13 18:29	1.18	Column	Metal	Cen	Gray	Fab Bldg		Open Rm	NEG	2.72	< LOD	0.13	< LOD	0.13	< LOD	4.02
10/12/13 18:29	1.19	Column	Metal	Cen	Gray	Fab Bldg		Open Rm	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	4.21
10/12/13 18:29	1.19	Column	Metal	Cen	Gray	Fab Bldg		Open Rm	NEG	1.24	< LOD	0.06	< LOD	0.06	< LOD	4.15
10/12/13 18:30	1.2	Column	Metal	Cen	Gray	Fab Bldg		Open Rm	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.85
10/12/13 18:32	1.2	Wall	Metal	A	Gray	Fab Bldg		Exterior	NEG	5.09	< LOD	1	< LOD	1	< LOD	3.1
10/12/13 18:32	1.19	Wall	Metal	A	Gray	Fab Bldg		Exterior	NEG	2.54	< LOD	0.46	< LOD	0.46	< LOD	3.19
10/12/13 18:34	3.32	Door	Metal	A	Gray	Fab Bldg		Exterior	NEG	10	< LOD	1.06	< LOD	0.91	< LOD	1.06
10/12/13 18:35	1.19	Doorframe	Metal	A	Gray	Fab Bldg		Exterior	NEG	1.66	< LOD	0.11	< LOD	0.11	< LOD	4.16
10/12/13 18:35	1.2	Door Hinge	Metal	A	Red	Fab Bldg		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.36
10/12/13 18:35	1.19	Door Hinge	Metal	A	Red	Fab Bldg		Exterior	NEG	7.46	< LOD	0.29	< LOD	0.29	< LOD	4.27
10/12/13 18:35	1.2	Door Hinge	Metal	A	Green	Fab Bldg		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.43
10/12/13 18:36	1.19	Ladder	Metal	A	Gray	Fab Bldg		Exterior	NEG	2.09	< LOD	0.11	< LOD	0.11	< LOD	3.63
10/12/13 18:36	1.2	Ladder	Metal	A	Gray	Fab Bldg		Exterior	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	4.24
10/12/13 18:36	1.19	Ladder	Metal	A	Gray	Fab Bldg		Exterior	NEG	2.02	< LOD	0.07	< LOD	0.07	< LOD	3.79
10/12/13 18:37	1.2	Ladder Guard	Metal	A	Yellow	Fab Bldg		Exterior	NEG	1.94	< LOD	0.07	< LOD	0.07	< LOD	3.74
10/12/13 18:39	1.19	Wall	Metal	B	Gray	Fab Bldg		Exterior	NEG	5.49	< LOD	0.89	< LOD	0.89	< LOD	2.61
10/12/13 18:40	1.2	Door slide	Metal	B	Gray	Fab Bldg		Exterior	NEG	1.6	< LOD	0.31	< LOD	0.31	< LOD	3.03
10/12/13 18:40	1.2	Window Frame	Metal	B	Gray	Fab Bldg		Exterior	NEG	1	< LOD	0.1	< LOD	0.1	< LOD	4.15
10/12/13 18:41	1.2	Door	Metal	B	Red	Fab Bldg		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.7
10/12/13 18:41	1.19	Doorframe	Metal	B	Red	Fab Bldg		Exterior	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	3.89
10/12/13 18:41	1.19	Roof	Metal		Gray	Fab Bldg		Roof	NEG	4.44	< LOD	0.79	< LOD	0.79	< LOD	2.88
10/12/13 18:42	1.18	Roof	Metal		Gray	Fab Bldg		Roof	NEG	4.1	< LOD	0.73	< LOD	0.73	< LOD	3.15
10/12/13 18:43	1.19	Pole	Metal	B	Yellow	Fab Bldg		Exterior	NEG	1.73	< LOD	0.12	< LOD	0.12	< LOD	3.91
10/12/13 18:44	1.2	Wall	Metal	B	Gray	Fab Bldg		Exterior	NEG	1	< LOD	0.11	< LOD	0.11	< LOD	2.5
10/12/13 18:45	1.19	Wall	Metal	B	Gray	Fab Bldg		Exterior	NEG	1.22	< LOD	0.17	< LOD	0.17	< LOD	2.85

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 18:46	1.19	Roll Door	Metal	B	Gray	Fab Bldg		Exterior	NEG	2.2	< LOD	0.53	< LOD	0.53	< LOD	3.06
10/12/13 18:46	1.2	Roll Doorframe	Metal	B	Red	Fab Bldg		Exterior	NEG	1.03	< LOD	0.05	< LOD	0.05	< LOD	3.75
10/12/13 18:46	1.19	Door	Metal	B	Gray	Fab Bldg		Exterior	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	3.56
10/12/13 18:47	1.2	Doorframe	Metal	B	Gray	Fab Bldg		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.97
10/12/13 18:48	1.21	Gutter	Metal	B	Gray	Fab Bldg		Exterior	NEG	2.12	< LOD	0.38	< LOD	0.38	< LOD	2.87
10/12/13 18:49	1.19	Window Frame	Metal	B	Gray	Fab Bldg		Exterior	NEG	1.3	< LOD	0.11	< LOD	0.11	< LOD	4.2
10/12/13 18:49	1.19	Window Frame	Metal	B	Gray	Fab Bldg		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.96
10/12/13 18:49	1.19	Window Frame	Metal	B	Gray	Fab Bldg		Exterior	NEG	1	< LOD	0.07	< LOD	0.07	< LOD	4
10/12/13 18:49	1.2	Wall	Metal	D	Gray	Fab Bldg		Exterior	NEG	1.44	< LOD	0.21	< LOD	0.21	< LOD	2.74
10/12/13 18:50	1.2	Window Frame	Metal	D	Gray	Fab Bldg		Exterior	NEG	1.44	< LOD	0.11	< LOD	0.11	< LOD	3.97
10/12/13 18:50	0.9	Wall	Metal	D	Gray	Fab Bldg		Exterior	Null	1	< LOD	0.17	< LOD	0.17	< LOD	4.47
10/12/13 18:50	1.19	Wall	Metal	D	Gray	Fab Bldg		Exterior	NEG	1	< LOD	0.12	< LOD	0.12	< LOD	2.71
10/12/13 18:51	0.3	Door	Metal	D	Red	Fab Bldg		Exterior	Null	1	< LOD	0.09	< LOD	0.09	< LOD	11.2
10/12/13 18:51	1.19	Door	Metal	D	Red	Fab Bldg		Exterior	NEG	3.48	< LOD	0.25	< LOD	0.25	< LOD	3.83
10/12/13 18:51	1.2	Doorframe	Metal	D	Red	Fab Bldg		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.9
10/12/13 18:51	1.2	Stair Rail	Metal	D	Yellow	Fab Bldg		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	4.05
10/12/13 18:52	1.19	Door	Metal	D	Gray	Fab Bldg		Exterior	NEG	1.53	< LOD	0.24	< LOD	0.24	< LOD	3.11
10/12/13 18:52	1.2	Doorframe	Metal	D	Gray	Fab Bldg		Exterior	NEG	1.5	0.4	0.2	0.4	0.2	< LOD	4.35
10/12/13 18:58	1.18	Tank Lid	Metal	D	Red	Fuel Tank		Exterior	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	4.05
10/12/13 18:58	1.19	Tank Lid	Metal	D	Red	Fuel Tank		Exterior	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	4.2
10/12/13 18:59	1.2	Pole	Metal	D	Red	Fuel Tank		Exterior	NEG	1.6	< LOD	0.14	< LOD	0.14	< LOD	4.21
10/12/13 18:59	1.19	Wall	Metal	D	Red	Fuel Tank		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.53
10/12/13 18:59	1.2	Wall	Metal	D	Red	Fuel Tank		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.72
10/12/13 19:01	1.19	Wall	Metal	D	Red	South Tank		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.83
10/12/13 19:01	1.19	Roof	Metal	D	Red	South Tank		Exterior	NEG	2.07	< LOD	0.11	< LOD	0.11	< LOD	3.9
10/12/13 19:03	1.19	Roof	Metal	D	Red	Collapsed		Exterior	NEG	1	< LOD	0.07	< LOD	0.07	< LOD	3.91
10/12/13 19:03	1.21	Roof	Metal	D	Gray	Collapsed		Exterior	NEG	5.17	< LOD	0.96	< LOD	0.96	< LOD	2.7
10/12/13 19:03	1.2	Roof	Metal	D	Gray	Collapsed		Exterior	NEG	3.33	< LOD	0.58	< LOD	0.58	< LOD	2.73
10/12/13 19:04	1.19	Beam	Metal	D	Red	Collapsed		Exterior	NEG	4.17	< LOD	0.26	< LOD	0.26	< LOD	3.88
10/12/13 19:04	1.19	Beam	Metal	D	Red	Collapsed		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.76
10/12/13 19:05	1.19	Column	Metal	D	Red	Collapsed		Exterior	NEG	7.53	< LOD	0.39	< LOD	0.39	< LOD	3.37
10/12/13 19:06	6.59	Grate	Metal	D	Orange	Collapsed		Exterior	POS	1.03	1.1	0.1	1.1	0.1	< LOD	1.2
10/12/13 19:10	2.69	Pipe	Concrete	D	Gray	Collapsed		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.41
10/12/13 19:27	1.2		Cal						NEG	1.11	0.3	0.18	0.3	0.18	< LOD	2.12
10/12/13 19:27	1.2		Cal						NEG	1.14	0.3	0.18	0.3	0.18	< LOD	2.1
10/12/13 19:27	1.2		Cal						NEG	1	0.27	0.15	0.27	0.15	< LOD	2.1
10/12/13 19:32	3.29	Wall	Metal	A	Gray	Mill		Open Rm	NEG	10	< LOD	1.03	< LOD	1.2	< LOD	1.03
10/12/13 19:32	1.19	Wall	Metal	A	Gray	Mill		Open Rm	NEG	3.81	< LOD	0.62	< LOD	0.62	< LOD	2.73
10/12/13 19:32	1.19	Wall	Metal	A	Gray	Mill		Open Rm	NEG	1.35	< LOD	0.16	< LOD	0.16	< LOD	2.77
10/12/13 19:33	0.3	Column	Metal	A	Brown	Mill		Open Rm	Null	1	< LOD	0.23	< LOD	0.23	< LOD	11.62
10/12/13 19:33	0.89	Column	Metal	A	Brown	Mill		Open Rm	POS	1.57	2.4	1.1	2.4	1.1	< LOD	8.55
10/12/13 19:33	0.3	Column	Metal	A	Brown	Mill		Open Rm	POS	2.01	5.6	6.9	< LOD	6.9	< LOD	19.05

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 19:34	1.19	Beam	Metal	A	Brown	Mill		Open Rm	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	3.96
10/12/13 19:35	1.51	Wall	Metal	B	Gray	Mill		Open Rm	NEG	4.81	< LOD	0.76	< LOD	0.76	< LOD	2.35
10/12/13 19:35	3.32	Wall	Metal	B	Gray	Mill		Open Rm	NEG	8.9	< LOD	1.21	< LOD	0.9	< LOD	1.21
10/12/13 19:35	1.2	Column	Metal	B	Brown	Mill		Open Rm	NEG	1	< LOD	0.11	< LOD	0.11	< LOD	3.99
10/12/13 19:36	1.21	Column	Metal	B	Brown	Mill		Open Rm	POS	1.8	2.1	1	2.1	1	< LOD	5.55
10/12/13 19:36	1.2	Window Frame	Wood	B	White	Mill		Open Rm	NEG	3.14	< LOD	0.45	< LOD	0.45	< LOD	2.55
10/12/13 19:36	5.07	Window Frame	Wood	B	White	Mill		Open Rm	POS	2.47	1.2	0.2	1.2	0.2	1.2	0.5
10/12/13 19:37	1.19	Window Frame	Wood	B	White	Mill		Open Rm	NEG	2.13	< LOD	0.32	< LOD	0.32	< LOD	2.25
10/12/13 19:37	8.95	Window Frame	Wood	B	White	Mill		Open Rm	POS	2.33	1.4	0.4	1	0.1	1.4	0.4
10/12/13 19:38	6.56	Window Frame	Wood	B	White	Mill		Open Rm	POS	2.82	1.5	0.5	1.1	0.2	1.5	0.5
10/12/13 19:39	1.19	Window Frame	Metal	B	Brown	Mill		Open Rm	NEG	1	< LOD	0.07	< LOD	0.07	< LOD	4.26
10/12/13 19:39	1.19	Window Frame	Metal	B	Brown	Mill		Open Rm	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.88
10/12/13 19:39	1.19	Door	Metal	B	Gray	Mill		Open Rm	NEG	1.79	< LOD	0.29	< LOD	0.29	< LOD	3
10/12/13 19:40	1.19	Wall	Metal	B	Gray	Mill		Open Rm	NEG	1.83	< LOD	0.25	< LOD	0.25	< LOD	2.8
10/12/13 19:41	1.5	Column	Metal	B	Gray	Mill		Open Rm	NEG	5.6	< LOD	0.24	< LOD	0.24	< LOD	3.53
10/12/13 19:41	1.19	Column	Metal	B	Gray	Mill		Open Rm	NEG	1.58	< LOD	0.16	< LOD	0.16	< LOD	4.05
10/12/13 19:42	1.19	Wall	Metal	C	Gray	Mill		Open Rm	NEG	4.32	< LOD	0.75	< LOD	0.75	< LOD	2.34
10/12/13 19:42	1.2	Wall	Metal	C	Gray	Mill		Open Rm	NEG	4.71	< LOD	0.82	< LOD	0.82	< LOD	2.79
10/12/13 19:42	1.2	Wall	Metal	C	Gray	Mill		Open Rm	NEG	4.05	< LOD	0.6	< LOD	0.6	< LOD	2.75
10/12/13 19:43	1.19	Roll Door	Metal	C	Gray	Mill		Open Rm	NEG	3.03	< LOD	0.26	< LOD	0.26	< LOD	1.95
10/12/13 19:43	1.19	Roll Doorframe	Metal	C	Gray	Mill		Open Rm	NEG	1	< LOD	0.21	< LOD	0.21	< LOD	4.22
10/12/13 19:46	1.2	Roll Doorframe	Metal	C	Gray	Mill		Open Rm	NEG	1.4	< LOD	0.08	< LOD	0.08	< LOD	4.04
10/12/13 19:47	1.2	Column	Metal	C	Gray	Mill		Open Rm	NEG	1.53	< LOD	0.13	< LOD	0.13	< LOD	3.92
10/12/13 19:47	1.19	Wall	Metal	C	Gray	Mill		Open Rm	NEG	6.3	< LOD	1.12	< LOD	1.12	< LOD	2.76
10/12/13 19:48	1.19	Column	Metal	C	Gray	Mill		Open Rm	NEG	2.54	< LOD	0.13	< LOD	0.13	< LOD	3.92
10/12/13 19:49	3.3	Wall	Metal	D	Gray	Mill		Open Rm	NEG	9.07	< LOD	1.34	< LOD	0.9	< LOD	1.34
10/12/13 19:49	1.21	Wall	Metal	D	Gray	Mill		Open Rm	NEG	4.06	< LOD	0.69	< LOD	0.69	< LOD	2.8
10/12/13 19:49	1.51	Door	Metal	D	Gray	Mill		Open Rm	NEG	5.31	< LOD	0.84	< LOD	0.84	< LOD	2.46
10/12/13 19:49	1.2	Doorframe	Metal	D	Gray	Mill		Open Rm	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	4.18
10/12/13 19:50	2.98	Door	Metal	D	Gray	Mill		Open Rm	NEG	1.3	< LOD	0.03	< LOD	0.03	< LOD	1.55
10/12/13 19:51	1.2	Doorframe	Metal	D	Gray	Mill		Open Rm	NEG	1.41	< LOD	0.12	< LOD	0.12	< LOD	4.2
10/12/13 19:51	1.19	Column	Metal	D	Gray	Mill		Open Rm	NEG	1.58	< LOD	0.1	< LOD	0.1	< LOD	4.07
10/12/13 19:51	1.19	Column	Metal	D	Gray	Mill		Open Rm	NEG	2.03	< LOD	0.16	< LOD	0.16	< LOD	3.8
10/12/13 19:51	1.18	Column	Metal	D	Gray	Mill		Open Rm	NEG	1.43	< LOD	0.16	< LOD	0.16	< LOD	4
10/12/13 19:51	1.2	Column	Metal	D	Gray	Mill		Open Rm	NEG	1.4	< LOD	0.06	< LOD	0.06	< LOD	4.1
10/12/13 19:52	1.19	Column	Metal	D	Gray	Mill		Open Rm	NEG	1.59	< LOD	0.09	< LOD	0.09	< LOD	4.09
10/12/13 19:52	3.88	Column	Metal	D	Red	Mill		Open Rm	POS	1.26	1.2	0.2	1.2	0.2	< LOD	1
10/12/13 19:52	6.26	Column	Metal	D	Red	Mill		Open Rm	NEG	1.17	0.9	0.1	0.9	0.1	< LOD	1.2
10/12/13 19:53	3.88	Hopper Column	Metal	D	Red	Mill		Open Rm	POS	1.76	1.2	0.2	1.2	0.2	< LOD	1.5
10/12/13 19:53	4.18	Hopper Column	Metal	D	Red	Mill		Open Rm	POS	1.7	1.2	0.2	1.2	0.2	< LOD	1.5
10/12/13 19:54	1.19	South Hopper	Metal	D	Red	Mill		Open Rm	NEG	1.52	0.6	0.3	0.6	0.3	< LOD	4.35
10/12/13 19:54	2.39	South Hopper	Metal	D	Red	Mill		Open Rm	Null	1.85	1.2	0.4	1.2	0.4	< LOD	3

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 19:55	3.58	South Hopper	Metal	D	Red	Mill		Open Rm	Null	1.76	1.2	0.3	1.2	0.3	< LOD	1.65
10/12/13 19:55	1.19	Hopper Arm	Metal	D	Red	Mill		Open Rm	NEG	1	< LOD	0.08	< LOD	0.08	< LOD	3.9
10/12/13 19:56	1.2	Hopper Mortar	Metal	D	Yellow	Mill		Open Rm	NEG	3.09	< LOD	0.36	< LOD	0.36	< LOD	3.9
10/12/13 19:57	1.2	Hopper Stair	Metal	D	Yellow	Mill		Open Rm	NEG	1.29	< LOD	0.11	< LOD	0.11	< LOD	3.52
10/12/13 19:58	1.21	Hopper Stair	Metal	D	Gray	Mill		Open Rm	NEG	2.03	< LOD	0.23	< LOD	0.23	< LOD	4.21
10/12/13 20:04	1.19	Center Hopper	Metal	D	Gray	Mill		Open Rm	NEG	1.19	< LOD	0.06	< LOD	0.06	< LOD	4.14
10/12/13 20:04	1.2	Center Hopper	Metal	D	Gray	Mill		Open Rm	NEG	2.69	< LOD	0.44	< LOD	0.44	< LOD	4.07
10/12/13 20:05	1.19	Center Hopper	Metal	D	Gray	Mill		Open Rm	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.92
10/12/13 20:05	1.2	Hopper Column	Metal	D	Gray	Mill		Open Rm	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.71
10/12/13 20:05	7.46	Hopper Column	Metal	D	Gray	Mill		Open Rm	POS	1.15	1.1	0.1	1.1	0.1	1.1	0.7
10/12/13 20:08	1.19	North Hopper	Metal	D	Gray	Mill		Open Rm	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	3.99
10/12/13 20:08	1.19	North Hopper	Metal	D	Gray	Mill		Open Rm	NEG	1.03	< LOD	0.12	< LOD	0.12	< LOD	3.36
10/12/13 20:09	1.2	Hopper Column	Metal	D	Gray	Mill		Open Rm	NEG	4.35	< LOD	0.21	< LOD	0.21	< LOD	4.17
10/12/13 20:10	1.55	Hopper Column	Metal	D	Gray	Mill		Open Rm	NEG	1	< LOD	0.29	< LOD	0.29	< LOD	6.6
10/12/13 20:10	1.19	Hopper Duct	Metal	D	Green	Mill		Open Rm	NEG	1.67	< LOD	0.08	< LOD	0.08	< LOD	4.05
10/12/13 20:10	1.19	Hopper Duct	Metal	D	Green	Mill		Open Rm	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.62
10/12/13 20:11	1.19	Center Hopper Inner	Metal	D	Brown	Mill		Open Rm	NEG	1.66	< LOD	0.08	< LOD	0.08	< LOD	3.54
10/12/13 20:12	1.19	Center Hopper	Metal	D	Brown	Mill		Open Rm	NEG	1.61	< LOD	0.18	< LOD	0.18	< LOD	3.77
10/12/13 20:13	4.2	Wall	Brick	A	White	Mill		Office	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.05
10/12/13 20:14	3.28	Wall	Brick	B	White	Mill		Office	NEG	1.73	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 20:14	3.26	Wall	Brick	C	White	Mill		Office	NEG	1.74	< LOD	0.03	< LOD	0.03	< LOD	1.35
10/12/13 20:14	2.39	Wall	Brick	D	White	Mill		Office	NEG	1.66	< LOD	0.03	< LOD	0.03	< LOD	2.39
10/12/13 20:14	2.38	Ceiling	Drywall		White	Mill		Office	NEG	1.12	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 20:15	1.19	Doorframe	Metal	A	White	Mill		Office	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.72
10/12/13 20:15	0.3	Doorframe	Wood	A	White	Mill		Office	Null	1	< LOD	0.05	< LOD	0.05	< LOD	13.8
10/12/13 20:15	1.19	Doorframe	Wood	A	White	Mill		Office	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.14
10/12/13 20:15	1.2	Door	Metal	A	Brown	Mill		Office	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.35
10/12/13 20:16	3.27	Window Frame	Concrete	B	White	Mill		Office	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 20:16	3.28	Window Frame	Concrete	C	White	Mill		Office	NEG	1.13	< LOD	0.03	< LOD	0.03	< LOD	1.52
10/12/13 20:17	1.2	Door	Metal	A	White	Mill		Office	NEG	3.34	< LOD	0.3	< LOD	0.3	< LOD	3.81
10/12/13 20:17	3.28	Wall	Brick	A	White	Mill		Office 2	NEG	1.06	< LOD	0.03	< LOD	0.03	< LOD	1.39
10/12/13 20:18	2.69	Wall	Brick	B	White	Mill		Office 2	NEG	1.71	< LOD	0.03	< LOD	0.03	< LOD	2.13
10/12/13 20:18	0.6	Wall	Brick	D	White	Mill		Office 2	Null	2.04	< LOD	0.13	< LOD	0.13	< LOD	6.33
10/12/13 20:18	1.2	Wall	Metal	B	White	Mill		Office 2	NEG	5.63	< LOD	0.59	< LOD	0.59	< LOD	3.26
10/12/13 20:19	1.19	Doorframe	Metal	B	Green	Mill		Office 2	NEG	1	< LOD	0.07	< LOD	0.07	< LOD	3.51
10/12/13 20:19	2.09	Window Frame	Metal	B	Green	Mill		Office 2	NEG	2.04	< LOD	0.13	< LOD	0.13	< LOD	2.86
10/12/13 20:20	1.19	Door	Metal	B	Gray	Mill		Office 2	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.75
10/12/13 20:20	2.08	Ceiling	Metal	B	White	Mill		Office 2	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.95
10/12/13 20:21	1.19	Wall	Metal	Adj	Red	Mill		Office 2	NEG	2.9	< LOD	0.37	< LOD	0.37	< LOD	3.53
10/12/13 20:21	1.2	Wall	Metal	Adj	Red	Mill		Office 2	NEG	5.69	< LOD	0.95	< LOD	0.95	< LOD	3.43
10/12/13 20:21	1.19	Hand Rail	Metal		Yellow	Mill		Office 2	NEG	1.19	< LOD	0.09	< LOD	0.09	< LOD	4.12
10/12/13 20:22	1.2	Hand Rail	Metal		Yellow	Mill		Office 2	NEG	1	< LOD	0.07	< LOD	0.07	< LOD	4.2



Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 20:22	2.99	Floor	Concrete		Gray	Mill		Open Rm	NEG	2.67	< LOD	0.1	< LOD	0.1	< LOD	2.47
10/12/13 20:23	3.27	Floor	Concrete		Gray	Mill		Open Rm	NEG	1.59	0.13	0.05	0.13	0.05	< LOD	1.67
10/12/13 20:23	3.28	Floor	Concrete		Gray	Mill		Open Rm	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.5
10/12/13 20:24	3.29	Floor	Concrete		Gray	Mill		Open Rm	NEG	1.54	< LOD	0.03	< LOD	0.03	< LOD	1.65
10/12/13 20:24	1.2	Furnace	Metal	A	Brown	Mill		Open Rm	NEG	3.01	< LOD	0.13	< LOD	0.13	< LOD	4.18
10/12/13 20:24	1.18	Furnace	Metal	A	Brown	Mill		Open Rm	NEG	2.99	< LOD	0.13	< LOD	0.13	< LOD	4.37
10/12/13 20:25	1.19	Stair Rail	Metal	C	Yellow	Mill		Open Rm	NEG	1.78	< LOD	0.11	< LOD	0.11	< LOD	3.91
10/12/13 20:25	1.18	Stair Rail	Metal	C	Gray	Mill		Open Rm	NEG	1.97	0.5	0.3	0.5	0.3	< LOD	4.14
10/12/13 20:25	2.08	Stair Rail	Metal	C	Gray	Mill		Open Rm	NEG	2	0.7	0.3	0.7	0.3	< LOD	3.3
10/12/13 20:25	0.6	Staircase	Metal	C	Gray	Mill		Open Rm	POS	1.51	2.4	1.3	2.4	1.3	< LOD	9.45
10/12/13 20:26	0.6	Staircase	Metal	C	Gray	Mill		Open Rm	POS	1.79	3.6	2	3.6	2	< LOD	10.05
10/12/13 20:26	4.18	Staircase	Metal	C	Gray	Mill		Open Rm	POS	1.19	1.2	0.1	1.2	0.1	< LOD	1.5
10/12/13 20:27	1.2	Staircase	Metal	C	Gray	Mill		Open Rm	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	4.04
10/12/13 20:27	1.19	Stair Rail	Metal	C	Yellow	Mill		Open Rm	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	4.14
10/12/13 20:28	1.19	Stair Rail	Metal	C	Gray	Mill		Open Rm	NEG	1.16	< LOD	0.13	< LOD	0.13	< LOD	4.24
10/12/13 20:28	1.2	Door	Metal	C	Gray	Mill	2	Open Rm	NEG	1	< LOD	0.07	< LOD	0.07	< LOD	3.83
10/12/13 20:29	1.19	Doorframe	Metal	C	Gray	Mill	2	Open Rm	NEG	1.58	< LOD	0.16	< LOD	0.16	< LOD	4.21
10/12/13 20:29	1.2	North Hopper	Metal	C	Gray	Mill	2	Open Rm	NEG	2.06	< LOD	0.13	< LOD	0.13	< LOD	4.01
10/12/13 20:32	1.19	Wall	Metal	A	Gray	Mill		Exterior	NEG	2.55	< LOD	0.4	< LOD	0.4	< LOD	2.2
10/12/13 20:32	1.8	Wall	Metal	A	Gray	Mill		Exterior	NEG	4.25	< LOD	0.57	< LOD	0.57	< LOD	2.65
10/12/13 20:33	1.81	Wall	Metal	A	Gray	Mill		Exterior	NEG	4.51	< LOD	0.62	< LOD	0.62	< LOD	2.52
10/12/13 20:34	0.6	Wall	Metal	B	Gray	Mill		Exterior	Null	1	< LOD	0.18	< LOD	0.18	< LOD	5.56
10/12/13 20:35	1.19	Wall	Metal	B	Gray	Mill		Exterior	NEG	2.24	< LOD	0.42	< LOD	0.42	< LOD	3.3
10/12/13 20:35	1.19	Window Frame	Ceramic Tile	B	White	Mill		Exterior	NEG	2.19	< LOD	0.27	< LOD	0.27	< LOD	2.08
10/12/13 20:35	1.19	Window Frame	Ceramic Tile	B	White	Mill		Exterior	NEG	2.87	< LOD	0.34	< LOD	0.34	< LOD	2.55
10/12/13 20:35	1.19	Window Frame	Ceramic Tile	B	White	Mill		Exterior	NEG	3.14	< LOD	0.46	< LOD	0.46	< LOD	1.92
10/12/13 20:36	0.3	Ceiling	Metal		Gray	Mill		Exterior	Null	1.75	< LOD	0.48	< LOD	0.48	< LOD	8.85
10/12/13 20:36	1.2	Ceiling	Metal		Gray	Mill		Exterior	NEG	2.54	< LOD	0.42	< LOD	0.42	< LOD	2.87
10/12/13 20:36	1.19	Door	Metal	B	Gray	Mill		Exterior	NEG	1.99	< LOD	0.48	< LOD	0.48	< LOD	3.46
10/12/13 20:37	1.19	Ceiling	Metal	B	Gray	Mill		Exterior	NEG	1.82	< LOD	0.31	< LOD	0.31	< LOD	3.45
10/12/13 20:37	1.2	Ceiling	Metal	C	Gray	Mill		Exterior	NEG	1.09	< LOD	0.17	< LOD	0.17	< LOD	2.77
10/12/13 20:38	1.2	Roll Door	Metal	C	Gray	Mill		Exterior	NEG	1.55	< LOD	0.3	< LOD	0.3	< LOD	3.45
10/12/13 20:38	0.6	Roll Doorframe	Metal	C	Gray	Mill		Exterior	Null	1	< LOD	0.08	< LOD	0.08	< LOD	7.89
10/12/13 20:38	1.19	Column N Hopper	Metal	C	Gray	Mill		Exterior	NEG	2.37	< LOD	0.15	< LOD	0.15	< LOD	3.87
10/12/13 20:38	1.2	Column N Hopper	Metal	C	Gray	Mill		Exterior	NEG	1.53	< LOD	0.08	< LOD	0.08	< LOD	4.11
10/12/13 20:39	0.3	Wall	Metal	C	Gray	Mill		Exterior	Null	10	< LOD	4.95	< LOD	4.95	< LOD	8.6
10/12/13 20:40	1.2	Wall	Metal	C	Gray	Mill		Exterior	NEG	5.43	< LOD	0.84	< LOD	0.84	< LOD	2.85
10/12/13 20:40	1.2	Pipe	Metal	C	Gray	Mill		Exterior	NEG	1.64	< LOD	0.14	< LOD	0.14	< LOD	4.05
10/12/13 20:40	3.28	Wall	Metal	D	Gray	Mill		Exterior	NEG	9.72	< LOD	1.07	< LOD	0.78	< LOD	1.07
10/12/13 20:41	1.2	Door	Metal	D	Gray	Mill		Exterior	NEG	2.24	< LOD	0.52	< LOD	0.52	< LOD	3.12
10/12/13 20:41	1.2	Doorframe	Metal	D	Brown	Mill		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	4.1
10/12/13 20:42	2.69	Wall	Metal	D	Gray	Mill		Exterior	NEG	7.92	< LOD	0.81	< LOD	0.81	< LOD	1.65

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 20:42	1.19	Door	Metal	D	White	Mill		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.66
10/12/13 20:43	1.2	Ladder	Metal	D	Yellow	Mill		Exterior	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	4.11
10/12/13 20:43	1.19	Ladder	Metal	D	Yellow	Mill		Exterior	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	4.03
10/12/13 20:43	1.19	Ladder	Metal	D	Gray	Mill		Exterior	NEG	1	< LOD	0.09	< LOD	0.09	< LOD	4.1
10/12/13 20:45	1.2	South Hopper	Metal		Gray	Mill		Exterior	NEG	1.58	< LOD	0.16	< LOD	0.16	< LOD	4.18
10/12/13 20:46	1.2	South Hopper	Metal		Gray	Mill		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	4.15
10/12/13 20:46	1.2	South Hopper	Metal		Gray	Mill		Exterior	NEG	2.24	< LOD	0.17	< LOD	0.17	< LOD	4.24
10/12/13 20:46	1.19	South Hopper	Metal		Gray	Mill		Exterior	NEG	1.26	< LOD	0.07	< LOD	0.07	< LOD	4.24
10/12/13 20:47	1.19	S Hopper Column	Metal		Gray	Mill		Exterior	NEG	1.4	< LOD	0.08	< LOD	0.08	< LOD	4.4
10/12/13 20:47	1.19	S Hopper Column	Metal		Gray	Mill		Exterior	NEG	1.57	< LOD	0.13	< LOD	0.13	< LOD	4.04
10/12/13 20:47	1.19	S Hopper Column	Metal		Gray	Mill		Exterior	NEG	1.07	< LOD	0.09	< LOD	0.09	< LOD	4.35
10/12/13 20:48	1.2	S Hopper Column	Metal		Gray	Mill		Exterior	NEG	1.26	< LOD	0.17	< LOD	0.17	< LOD	4.56
10/12/13 20:50	0.9	Stair Landing	Metal		Orange	Mill		Exterior	POS	1.36	2.3	1	2.3	1	< LOD	7.95
10/12/13 20:50	1.19	Stair Landing	Metal		Orange	Mill		Exterior	POS	1.8	2	0.7	2	0.7	< LOD	4.5
10/12/13 20:51	1.2	Roof	Metal		Gray	Mill	Roof	Exterior	NEG	2.63	< LOD	0.32	< LOD	0.32	< LOD	3.73
10/12/13 20:53	1.19	Duct	Metal		Green	Mill	Roof	Exterior	NEG	2.11	< LOD	0.14	< LOD	0.14	< LOD	4.07
10/12/13 20:53	1.19	Duct	Metal		Green	Mill		Exterior	NEG	2.1	< LOD	0.13	< LOD	0.13	< LOD	4.11
10/12/13 20:55	1.18	South Silo	Metal	B	Gray	Silos		Exterior	NEG	1.47	< LOD	0.1	< LOD	0.1	< LOD	4.14
10/12/13 20:56	1.19	South Silo	Metal	B	Gray	Silos		Exterior	NEG	1.85	< LOD	0.13	< LOD	0.13	< LOD	4.12
10/12/13 20:56	1.2	South Silo	Metal	B	Gray	Silos		Exterior	NEG	1.92	< LOD	0.12	< LOD	0.12	< LOD	4.28
10/12/13 20:57	1.19	South Silo Beam	Metal	B	Yellow	Silos		Exterior	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	4.22
10/12/13 20:57	1.19	South Silo Beam	Metal	B	Yellow	Silos		Exterior	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	4.01
10/12/13 20:58	2.39	South Silo Ladder	Metal	B	White	Silos		Exterior	NEG	1.21	0.7	0.2	0.7	0.2	< LOD	3
10/12/13 20:58	1.19	South Silo Railing	Metal	B	Yellow	Silos		Exterior	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	4.06
10/12/13 20:59	1.2	South Silo Ladder	Metal	B	Yellow	Silos		Exterior	NEG	1.01	< LOD	0.26	< LOD	0.26	< LOD	3.32
10/12/13 20:59	1.2	S Silo Ladder Wall	Metal	B	Gray	Silos		Exterior	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	3.08
10/12/13 21:01	1.19	S Silo Room Door	Metal	B	Blue	Silos		Exterior	NEG	4.99	< LOD	0.25	< LOD	0.25	< LOD	3.9
10/12/13 21:01	4.19	S Silo Rm Doorframe	Metal	B	Gray	Silos		Exterior	NEG	3.4	0.8	0.2	0.8	0.2	< LOD	1.5
10/12/13 21:02	1.2	S Silo Hand Rail	Metal	B	Red	Silos		Exterior	NEG	3.53	< LOD	0.26	< LOD	0.26	< LOD	4.1
10/12/13 21:02	1.19	S Silo Column	Metal	B	Green	Silos		Exterior	NEG	1.23	< LOD	0.05	< LOD	0.05	< LOD	4.07
10/12/13 21:03	1.49	S Silo Column	Metal	B	Green	Silos		Exterior	NEG	1.7	0.6	0.3	0.6	0.3	< LOD	3.9
10/12/13 21:03	1.19	Silo Beam	Metal	B	Yellow	Silos		Exterior	NEG	1.09	< LOD	0.07	< LOD	0.07	< LOD	4.13
10/12/13 21:04	2.68	Silo Duct	Metal	B	Yellow	Silos		Exterior	POS	1.45	1.3	0.3	1.3	0.3	< LOD	2.85
10/12/13 21:04	0.59	Silo Duct	Metal	B	Yellow	Silos		Exterior	Null	1.77	< LOD	1.05	< LOD	1.05	< LOD	8.4
10/12/13 21:04	3.29	Silo Duct	Metal	B	Yellow	Silos		Exterior	NEG	1.5	0.8	0.1	0.8	0.1	< LOD	1.65
10/12/13 21:05	11.32	Silo Beam	Metal	B	Gray	Silos		Exterior	POS	1.34	1.1	0.1	1.1	0.1	< LOD	0.9
10/12/13 21:05	2.09	Silo Beam	Metal	B	Gray	Silos		Exterior	Null	1.41	1.1	0.3	1.1	0.3	< LOD	3.3
10/12/13 21:05	1.2	Silo Beam	Metal	B	Gray	Silos		Exterior	NEG	1.1	0.7	0.3	0.7	0.3	< LOD	4.35
10/12/13 21:09	1.19	N Silo Int. Wall	Metal	B	White	Silos		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	4.31
10/12/13 21:09	1.19	N Silo Int. Wall	Metal	B	White	Silos		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	4.26
10/12/13 21:09	1.2	N Silo Int. Wall	Metal	B	White	Silos		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.94
10/12/13 21:10	0.9	N Silo Ext. Wall	Metal	B	White	Silos		Exterior	POS	1.7	2.1	1	2.1	1	< LOD	8.1

Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 21:10	1.19	N Silo Ext. Wall	Metal	B	White	Silos		Exterior	POS	1.73	1.7	0.6	1.7	0.6	< LOD	4.65
10/12/13 21:11	2.4	N Silo Ext. Wall	Metal	B	White	Silos		Exterior	POS	1.41	1.4	0.3	1.4	0.3	< LOD	3.15
10/12/13 21:11	1.49	N Silo Ext. Wall	Metal	B	White	Silos		Exterior	POS	1.35	1.5	0.4	1.5	0.4	< LOD	4.35
10/12/13 21:11	1.19	Center Silo Ext. Wall	Metal	B	White	Silos		Exterior	NEG	2.01	< LOD	0.14	< LOD	0.14	< LOD	4.33
10/12/13 21:12	0.9	Center Silo Ext. Wall	Metal	B	White	Silos		Exterior	Null	2.4	< LOD	0.27	< LOD	0.27	< LOD	6.4
10/12/13 21:12	1.2	Center Silo Ext. Wall	Metal	B	White	Silos		Exterior	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	3.73
10/12/13 21:13	1.2	Center Silo Ext. Wall	Metal	B	White	Silos		Exterior	NEG	2.15	< LOD	0.11	< LOD	0.11	< LOD	4.18
10/12/13 21:13	1.19	Center Silo Ext. Wall	Metal	B	Yellow	Silos		Exterior	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	4.35
10/12/13 21:14	1.18	Center Silo Stair	Metal	B	Gray	Silos		Exterior	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	3.63
10/12/13 21:14	1.21	Center Silo Stair	Metal	B	Gray	Silos		Exterior	NEG	4.88	< LOD	0.88	< LOD	0.88	< LOD	4.3
10/12/13 21:14	1.19	Center Silo Stair	Metal	B	Gray	Silos		Exterior	NEG	2.66	< LOD	0.13	< LOD	0.13	< LOD	3.74
10/12/13 21:15	1.19	Center Silo Wall	Metal	B	Gray	Silos		Exterior	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.4
10/12/13 21:16	1.19	Silo Duct	Metal	B	Green	Silos		Exterior	NEG	1.89	< LOD	0.18	< LOD	0.18	< LOD	4.24
10/12/13 21:16	1.2	Silo Duct	Metal	B	Green	Silos		Exterior	NEG	1.69	< LOD	0.13	< LOD	0.13	< LOD	4.08
10/12/13 21:17	1.19	Silo Duct	Metal	B	Green	Silos		Exterior	NEG	1	< LOD	0.06	< LOD	0.06	< LOD	4.11
10/12/13 21:17	1.2	Silo Duct	Metal	B	Yellow	Silos		Exterior	NEG	1	< LOD	0.04	< LOD	0.04	< LOD	4.03
10/12/13 21:18	1.2	South Silo Ext. Wall	Metal	B	Yellow	Silos		Exterior	NEG	2.93	< LOD	0.3	< LOD	0.3	< LOD	4.35
10/12/13 21:19	1.2	South Silo Ext. Wall	Metal	B	Yellow	Silos		Exterior	NEG	1	< LOD	0.05	< LOD	0.05	< LOD	4.13
10/12/13 21:21	2.08	Wall	Drywall	A	White	Mill		Bathroom	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.76
10/12/13 21:21	1.19	Wall	Drywall	B	White	Mill		Bathroom	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.58
10/12/13 21:21	2.09	Wall	Drywall	C	White	Mill		Bathroom	NEG	3.21	< LOD	0.05	< LOD	0.05	< LOD	1.89
10/12/13 21:22	1.49	Ceiling	Drywall		White	Mill		Bathroom	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.26
10/12/13 21:22	1.2	Stall Divider	Metal	A	Green	Mill		Bathroom	NEG	1.03	< LOD	0.08	< LOD	0.08	< LOD	3.21
10/12/13 21:22	1.19	Toilet	Porcelain	A	White	Mill		Bathroom	NEG	3.17	< LOD	0.28	< LOD	0.28	< LOD	4.45
10/12/13 21:23	0.3	Shower Basboard	Ceramic Tile		White	Mill		Bathroom	POS	1.64	6.9	7.65	< LOD	7.65	< LOD	35.4
10/12/13 21:23	0.3	Shower Basboard	Ceramic Tile		White	Mill		Bathroom	POS	1.79	5.8	6.75	< LOD	6.75	< LOD	28.2
10/12/13 21:23	1.8	Floor	Concrete		Brown	Mill		Bathroom	NEG	1.34	< LOD	0.03	< LOD	0.03	< LOD	3.3
10/12/13 21:23	1.19	Window Frame	Wood	A	White	Mill		Bathroom	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.1
10/12/13 21:24	1.78	Sink	Porcelain	A	White	Mill		Bathroom	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.97
10/12/13 21:24	1.19	Cabinet	Wood	A	White	Mill		Bathroom	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.38
10/12/13 21:24	0.89	Cabinet	Wood	A	White	Mill		Bathroom	Null	1	< LOD	0.03	< LOD	0.03	< LOD	4.2
10/12/13 21:24	1.19	Cabinet	Wood	A	White	Mill		Bathroom	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.55
10/12/13 21:25	1.19	Door	Metal	A	Green	Mill		Bathroom	NEG	1.01	< LOD	0.06	< LOD	0.06	< LOD	3.8
10/12/13 21:25	1.19	Doorframe	Metal	A	Green	Mill		Bathroom	NEG	1.15	< LOD	0.07	< LOD	0.07	< LOD	4.15
10/12/13 21:26	1.49	Floor	Concrete		Gray	Mill		Kitchen	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	3.35
10/12/13 21:26	2.38	Floor	Concrete		Gray	Mill		Kitchen	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.62
10/12/13 21:26	3.31	Counter	Concrete	A	Gray	Mill		Kitchen	NEG	1.04	< LOD	0.03	< LOD	0.03	< LOD	1.28
10/12/13 21:27	1.2	Ceiling	Wood		Brown	Mill		Kitchen	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.09
10/12/13 21:27	1.19	Cabinet	Wood	A	Brown	Mill		Kitchen	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.77
10/12/13 21:27	1.19	Window Frame	Wood	A	White	Mill		Kitchen	NEG	2.27	< LOD	0.34	< LOD	0.34	< LOD	2.06
10/12/13 21:28	1.19	Door	Wood	C	White	Mill		Kitchen	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 21:28	1.19	Doorframe	Wood	C	White	Mill		Kitchen	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.08



Time	Duration	Component	Substrate	Side	Color	Building	Floor	Room	Result	Depth	PbC	PbC Err	PbL	PbL Err	PbK	PbK Err
10/12/13 21:28	2.08	Wall	Concrete	C	Gray	Mill		Kitchen	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	1.8
10/12/13 21:28	1.18	Wall	Concrete	B	Gray	Mill		Kitchen	NEG	1	< LOD	0.03	< LOD	0.03	< LOD	2.65
10/12/13 21:30	0.3		Cal		Yellow				POS	1.28	3.8	2.4	3.8	2.4	< LOD	12.9
10/12/13 21:30	0.3		Cal		Yellow				POS	1.35	< LOD	2.6	< LOD	2.6	< LOD	12
10/12/13 21:30	0.59		Cal		Yellow				POS	1.11	2.8	1.3	2.8	1.3	< LOD	8.4
10/12/13 21:37	1.19	Water Tank	Metal		Red	Grounds			NEG	1.28	< LOD	0.08	< LOD	0.08	< LOD	4.15
10/12/13 21:37	1.19	Water Tank	Metal		Red	Grounds			NEG	1.47	< LOD	0.1	< LOD	0.1	< LOD	3.97
10/12/13 21:37	1.19	Water Tank	Metal		Red	Grounds			NEG	1	< LOD	0.06	< LOD	0.06	< LOD	4.21
10/12/13 21:38	1.2	Water Tank	Metal		Red	Grounds			NEG	1.07	< LOD	0.07	< LOD	0.07	< LOD	4.32
10/12/13 21:38	1.2	Water Tank	Metal		Red	Grounds			NEG	2.01	< LOD	0.15	< LOD	0.15	< LOD	4.1
10/12/13 21:38	1.2	Water Tank	Metal		Red	Grounds			NEG	1	< LOD	0.14	< LOD	0.14	< LOD	4.18
10/12/13 21:38	1.19	Water Tank	Metal		Red	Grounds			NEG	1	< LOD	0.03	< LOD	0.03	< LOD	4.3
10/12/13 21:39	3.26	Water Tank Base	Concrete		Red	Grounds			NEG	1.08	0.04	0.02	0.04	0.02	< LOD	1.71
10/12/13 21:39	3.29	Water Tank Base	Concrete		Red	Grounds			NEG	1.66	< LOD	0.05	< LOD	0.05	< LOD	1.65

# Appendix C



Picture 1—Damaged acoustic ceiling texture in the second floor hall in the house.



Picture 2—9"x9" beige floor tile in the second floor hall in the house.



Picture 3—Acoustic ceiling debris on the carpet in the second floor hall in the house.



Picture 4—Acoustic ceiling debris on the contents and carpet in room 1 in the second floor of the house.



Picture 5—Gray roof mastic on the cracks and parapet wall on the roof of the house.



Picture 6—No suspect asbestos containing materials in the chase behind the bathroom wall.





Picture 7—Roof mastic in the center gutter on the roof of the fabrication building.



Picture 8—Collapsed building in the southeast corner of the property.



Picture 9—Damaged TSI amongst the debris of the collapsed building.



Picture 10—Broken cementitious panels directly adjacent to the collapsed building.



Picture 11—Gasket laying on the driveway adjacent to the fabrication building.



Picture 12—Transite pipe adjacent to the collapsed building.





Picture 13—Mill and silos.



Picture 14—White window putty on the windows in the mill.



Picture 15—Gasket at pipe junction above the center silo.



Picture 16—Mastic beneath center silo and above the basement beneath the silos.



Picture 17—Hoppers in the basement beneath the silos.



Picture 18—Gasket on the hopper beneath the silos.



Picture 19—Red and beige ceramic wall tile found in the 2nd floor bathroom and room 4 in the house.



Picture 20—Gray wood wall found in the open room in the fabrication building.



Picture 21—Green wood wall found only in room 1 in the fabrication building.



Picture 22—Green ceramic wall tile found in room 2 of the fabrication building.



Picture 23—Orange grates found in the collapsed building.



Picture 24—Orange grate on landing on exterior of east side of the mill.





Picture 25—Gray and brown metal columns in mill.



Picture 26—Gray and red metal hopper columns found in the mill.



Picture 27—Gray metal hopper column found in the mill.



Picture 28—Gray, red and brown metal framing and hopper supports found in the mill.



Picture 29—White wood window frames on the west side of the mill.



Picture 30—White ceramic baseboard tile in the shower of the new bathroom in the mill.





Picture 31—Gray metal staircase in the north end of the mill.



Picture 32—Gray metal staircase adjacent the north hopper, above the mill.



Picture 33—Yellow and gray metal ducts and framing of the elevator system adjacent the silos.



Picture 34—Yellow and gray metal ducts and framing of the elevator system adjacent the silos.



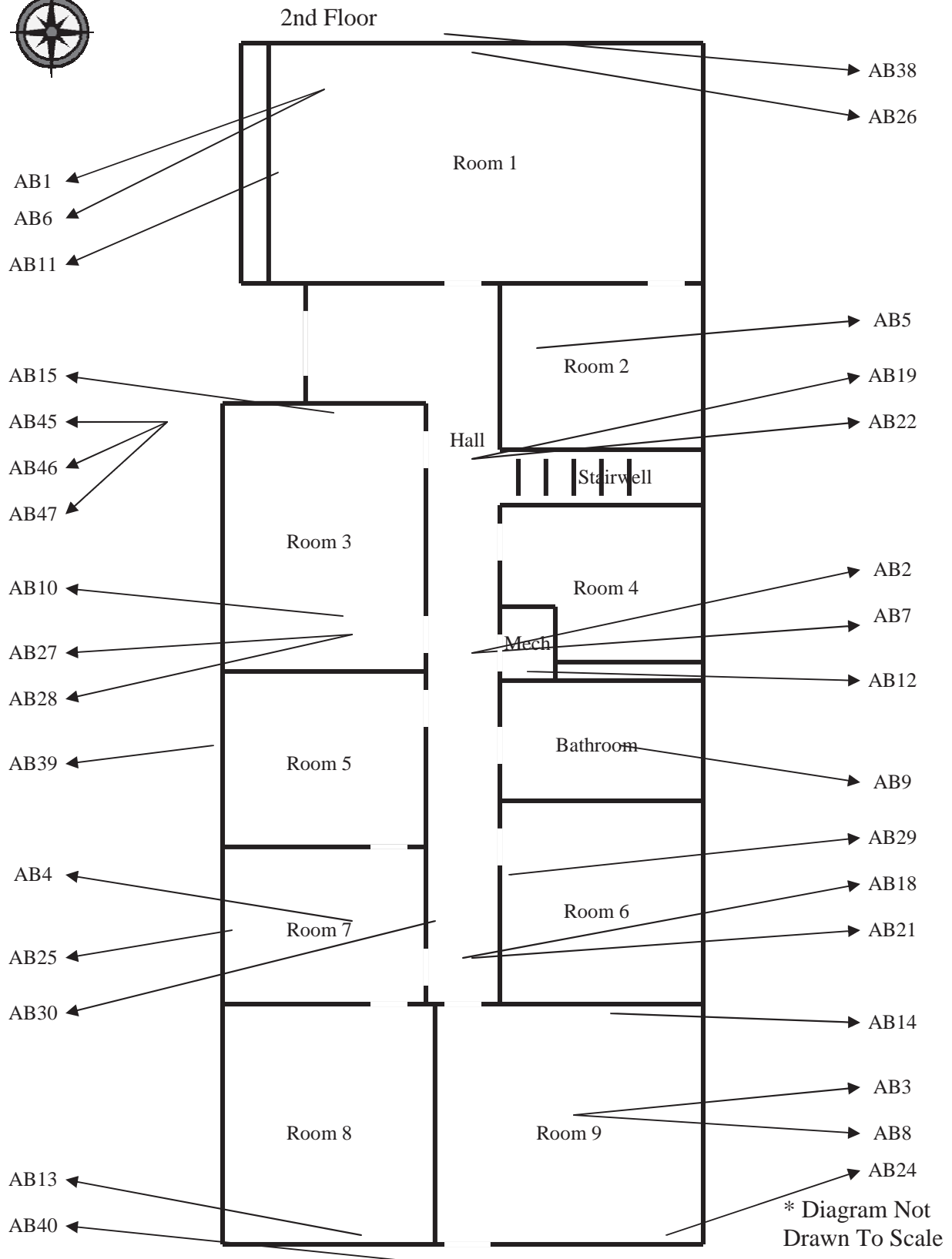
Picture 35—White metal exterior of the north silo.



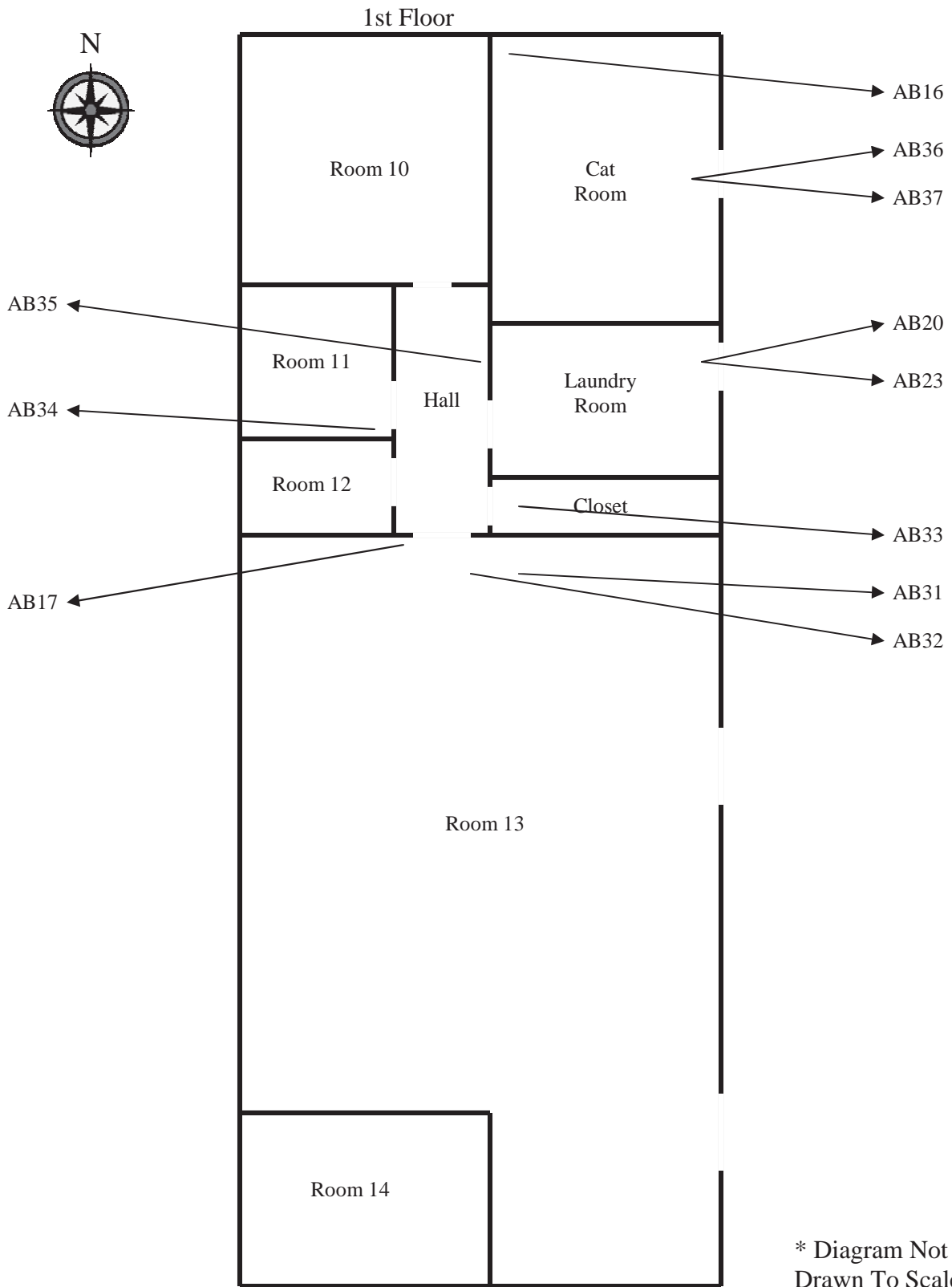
Picture 36—The north silo has physically different characteristics than the other two silos.

# Appendix D

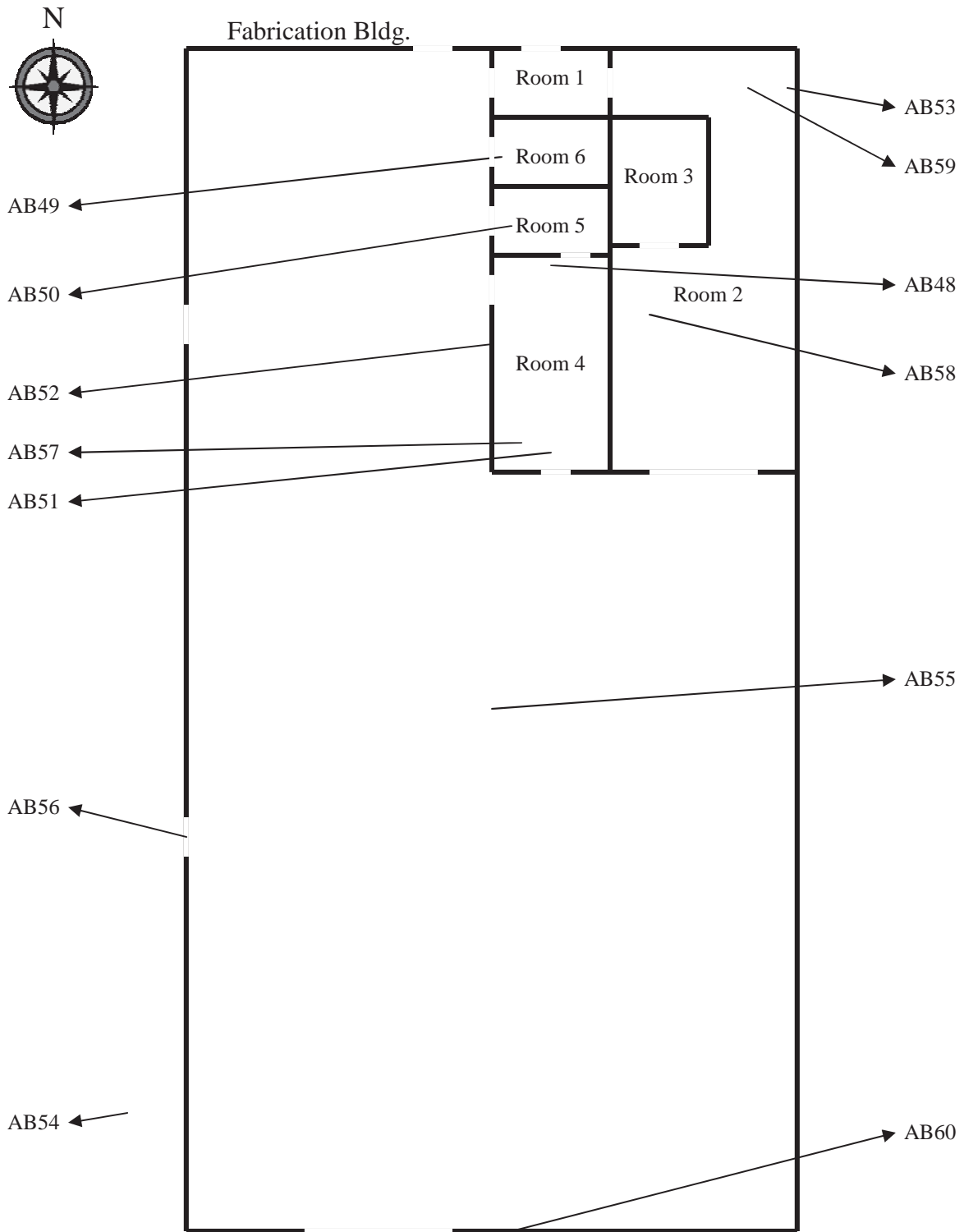
# Sample Location Diagram



# Sample Location Diagram



# Sample Location Diagram

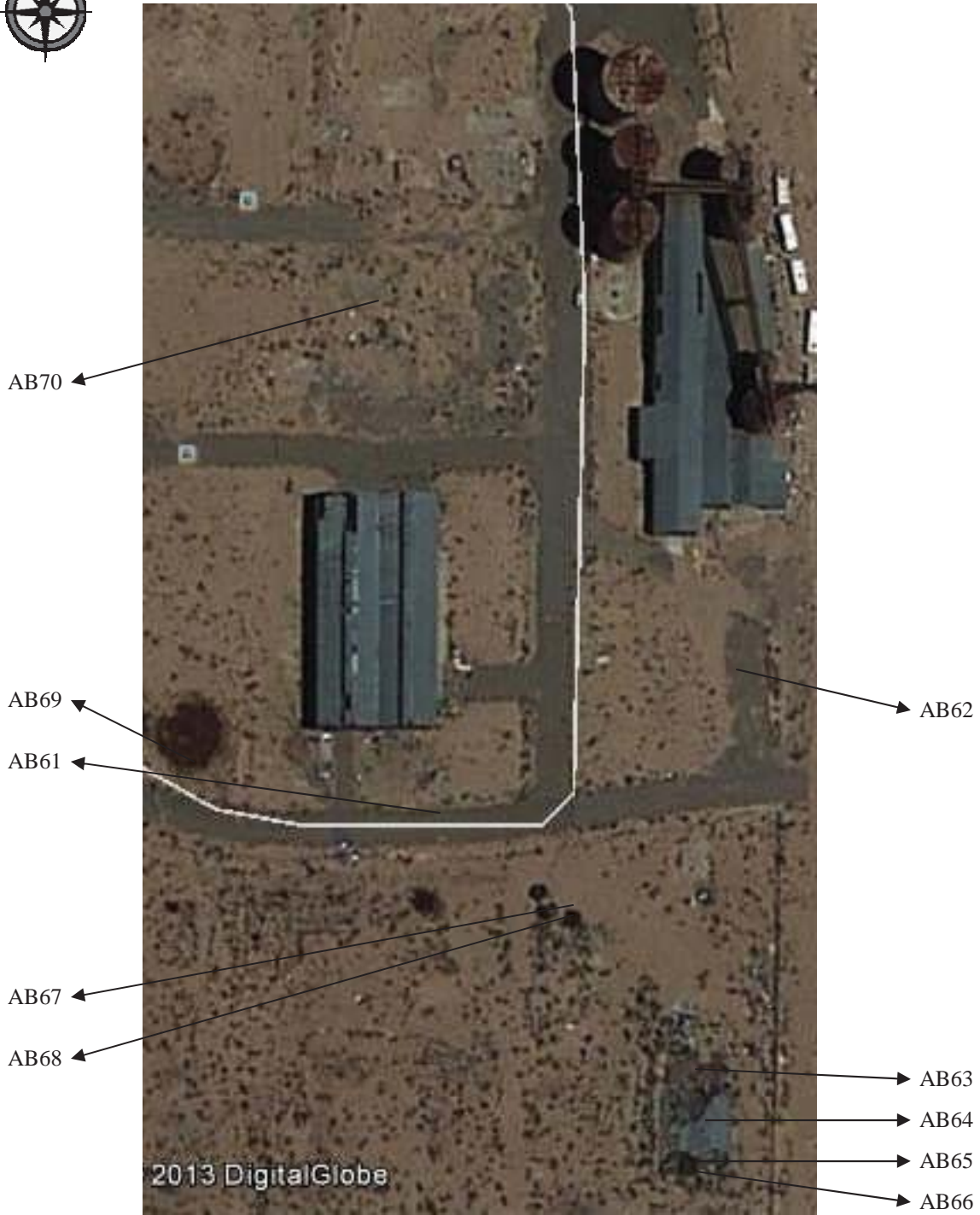


\* Diagram Not  
Drawn To Scale

# Sample Location Diagram



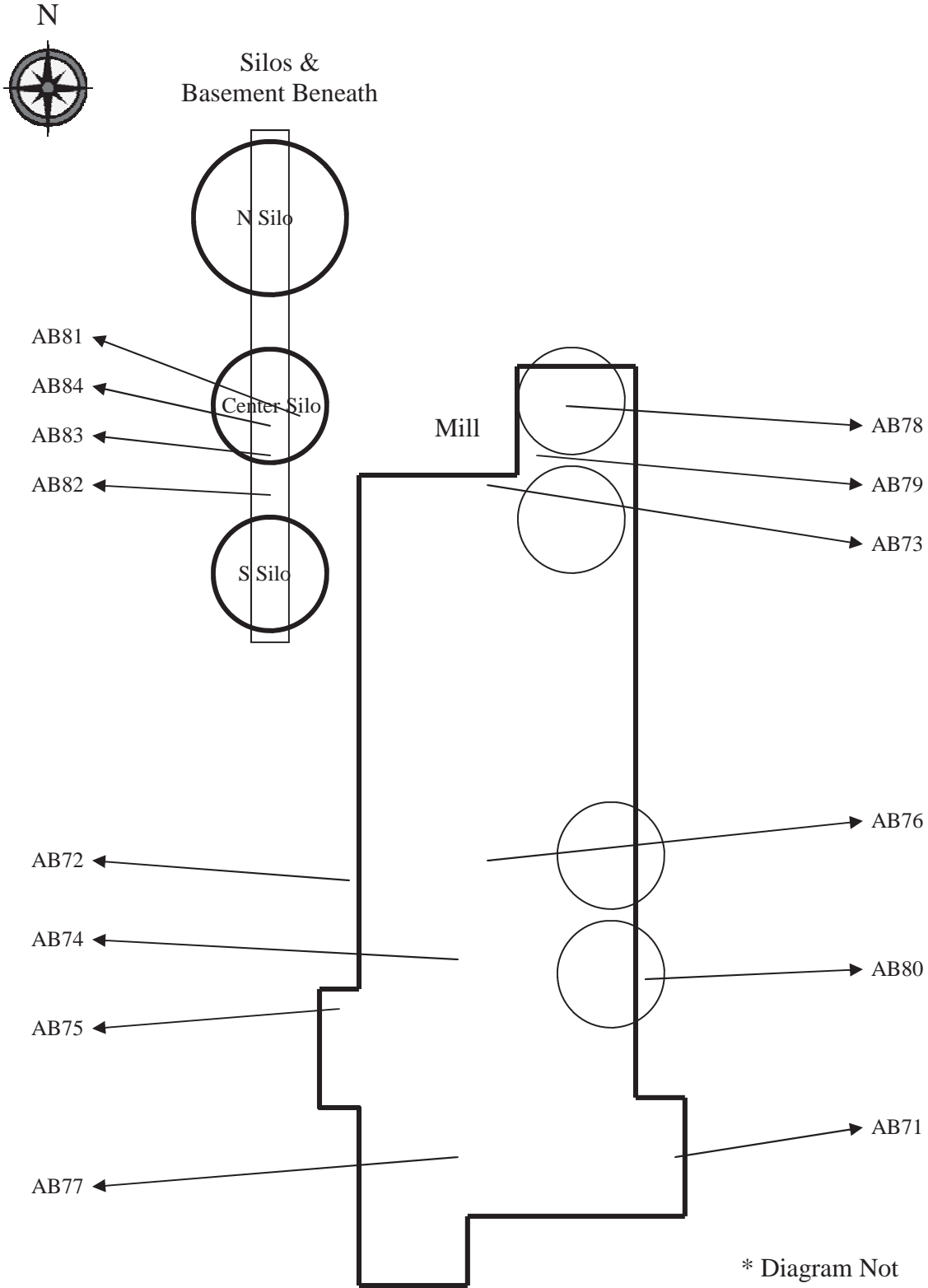
Overhead View of Grounds



\* Diagram Not  
Drawn To Scale



# Sample Location Diagram



# Appendix E

# TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midlothian, VA 23112  
804-739-1751 • fax: 804-739-1753

## BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Macrotec Consulting  
9724 Mild Weather Ct.  
Las Vegas, NV 89148

TESC LOGIN #: 131015L

DATE OF RECEIPT: 10/15/2013  
DATE OF ANALYSIS: 10/16/2013  
DATE OF REPORT: 10/16/2013

CLIENT JOB: 13115

JOB SITE: 800 N Hwy 395

ANALYST: F. Jiang / Y. Fang

TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
1	AB1 / Gray powder & fibers	2% Chrysotile	10% Fiberglass	88%
2	AB2 / Gray powder & fibers	2% Chrysotile	10% Fiberglass	88%
3	AB3 / Gray powder & fibers	2% Chrysotile		98%
4	AB4 / Gray powder & fibers	2% Chrysotile		98%
5	AB5 / Gray powder & fibers	2% Chrysotile		98%
6	AB6 / White, gray granular	NAD		100%
7	AB7 / White, gray granular	NAD		100%
8	AB8 / White, gray granular	NAD		100%
9	AB9 / White, gray granular	NAD		100%
10	AB10 / White, gray granular	NAD		100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/M4-82-020, Dec. 1982 and "Method for the Determination of Asbestos in Bulk Building Materials", EPA 600/R-93/116, July 1993. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report shall not be reproduced, except in full written approval of Triangle Environmental Service Center, Inc. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:



Feng Jiang, MS Senior Geologist, Laboratory Director  
Yuedong Fang, Senior Geologist

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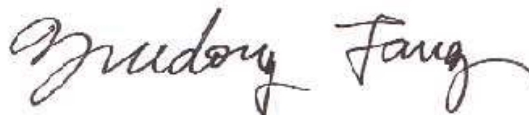
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
11	AB11 / White powder	NAD		100%
12	AB12 / White powder	NAD		100%
13	AB13 / White powder	NAD		100%
14	AB14 / White powder	NAD		100%
15	AB15 / White powder	NAD		100%
16	AB16 / White powder	NAD		100%
17	AB17 / White powder	NAD		100%
18	AB18 / Tan vinyl	2% Chrysotile		98%
19	AB19 / Tan vinyl	2% Chrysotile		98%
20	AB20 / Tan vinyl	2% Chrysotile		98%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/M4-82-020, Dec. 1982 and "Method for the Determination of Asbestos in Bulk Building Materials", EPA 600/R-93/116, July 1993. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report shall not be reproduced, except in full written approval of Triangle Environmental Service Center, Inc. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This test report relates only to the item(s) tested.

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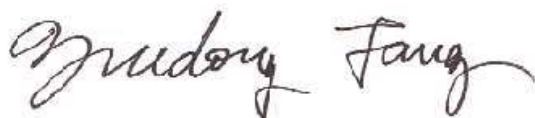
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
21	AB21 / Black adhesive	NAD		100%
22	AB22 / Black adhesive	NAD		100%
23	AB23 / Black adhesive	NAD		100%
24	AB24 / Gray powder	NAD		100%
25	AB25 / Gray powder	NAD		100%
26	AB26 / Gray powder	NAD		100%
27	AB27 / Brown fibers	NAD	98% Cellulose	2%
28	AB28 / Yellow adhesive	NAD		100%
29	AB29 / Brown adhesive	NAD		100%
30	AB30 / Yellow adhesive	NAD		100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/M4-82-020, Dec. 1982 and "Method for the Determination of Asbestos in Bulk Building Materials", EPA 600/R-93/116, July 1993. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report shall not be reproduced, except in full written approval of Triangle Environmental Service Center, Inc. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This test report relates only to the item(s) tested.

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ANALYST: F. Jiang / Y. Fang

TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
31	AB31 / Gray vinyl	NAD		100%
32	AB32 / Beige powder	NAD		100%
33	AB33 / White fibers	NAD	98% Cellulose	2%
34	AB34 / Brown fibers	NAD	98% Cellulose	2%
35	AB35 / Yellow adhesive	NAD		100%
36	AB36 / Off-white vinyl	NAD		100%
37	AB37 / Black adhesive	NAD		100%
38	AB38 / Gray granular	NAD		100%
39	AB39 / Gray granular	NAD		100%
40	AB40 / Gray granular	NAD		100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/M4-82-020, Dec. 1982 and "Method for the Determination of Asbestos in Bulk Building Materials", EPA 600/R-93/116, July 1993. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report shall not be reproduced, except in full written approval of Triangle Environmental Service Center, Inc. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This test report relates only to the item(s) tested.

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JOB SITE: 800 N Hwy 395

ANALYST: F. Jiang / Y. Fang

TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
41	AB41 / Gray adhesive	NAD		100%
42	AB42 / Gray adhesive	NAD		100%
43	AB43 / Black, gray adhesive	5% Chrysotile		95%
44	AB44 / Gray adhesive	NAD	10% Cellulose	90%
45	AB45 / Black tar-like	NAD	20% Synthetic	80%
46	AB46 / Blacck fibers	NAD	80% Fiberglass	20%
47	AB47 / Black adhesive	NAD	10% Cellulose	90%
48A	AB48-Drywall / White powder & brown fibers	NAD	20% Cellulose	80%
48B	AB48-Mud / White powder	NAD		100%
49	AB49 / Black adhesive	5% Chrysotile		95%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/M4-82-020, Dec. 1982 and "Method for the Determination of Asbestos in Bulk Building Materials", EPA 600/R-93/116, July 1993. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report shall not be reproduced, except in full written approval of Triangle Environmental Service Center, Inc. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This test report relates only to the item(s) tested.

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JOB SITE: 800 N Hwy 395

ANALYST: F. Jiang / Y. Fang

TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
50	AB50 / Black adhesive	3% Chrysotile		97%
51	AB51 / Black adhesive	5% Chrysotile		95%
52	AB52 / White adhesive	NAD		100%
53	AB53 / Gray powder	NAD		100%
54	AB54 / Gray powder	NAD		100%
55	AB55 / Brown fibers	NAD	98% Cellulose	2%
56	AB56 / Brown fibers	NAD	98% Cellulose	2%
57	AB57 / White powder	NAD		100%
58	AB58 / White powder	NAD		100%
59	AB59 / White powder	NAD		100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/M4-82-020, Dec. 1982 and "Method for the Determination of Asbestos in Bulk Building Materials", EPA 600/R-93/116, July 1993. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report shall not be reproduced, except in full written approval of Triangle Environmental Service Center, Inc. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:



Feng Jiang, MS Senior Geologist, Laboratory Director  
Yuedong Fang, Senior Geologist

# TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midlothian, VA 23112  
804-739-1751 • fax: 804-739-1753

## BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Macrotec Consulting  
9724 Mild Weather Ct.  
Las Vegas, NV 89148

TESC LOGIN #: 131015L

DATE OF RECEIPT: 10/15/2013  
DATE OF ANALYSIS: 10/16/2013  
DATE OF REPORT: 10/16/2013

CLIENT JOB: 13115

JOB SITE: 800 N Hwy 395

ANALYST: F. Jiang / Y. Fang

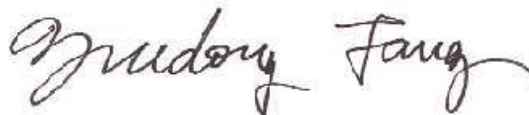
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
60	AB60 / Gray adhesive	5% Chrysotile		95%
61	AB61 / White fibers	98% Chrysotile		2%
62	AB62 / Gray fibers	98% Chrysotile		2%
63	AB63 / Gray fibers	98% Amosite		2%
64	AB64 / Gray fibers	98% Amosite		2%
65	AB65 / Gray fibers	98% Amosite		2%
66	AB66 / Gray cement	15% Chrysotile		85%
67	AB67 / Gray cement	15% Chrysotile 5 % Crocidolite		80%
68	AB68 / Gray cement	15% Chrysotile		85%
69	AB69 / Brown granular	NAD		100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/M4-82-020, Dec. 1982 and "Method for the Determination of Asbestos in Bulk Building Materials", EPA 600/R-93/116, July 1993. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report shall not be reproduced, except in full written approval of Triangle Environmental Service Center, Inc. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This test report relates only to the item(s) tested.

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Yuedong Fang, Senior Geologist

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CLIENT: Macrotec Consulting  
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CLIENT JOB: 13115

JOB SITE: 800 N Hwy 395

ANALYST: F. Jiang / Y. Fang

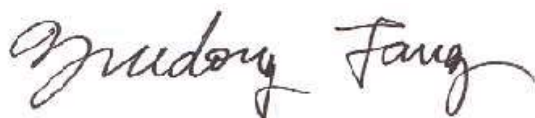
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
70	AB70 / Black adhesive	NAD		100%
71	AB71 / Gray powder	2% Chrysotile		98%
72	AB72 / Gray powder	2% Chrysotile		98%
73	AB73 / Gray powder	2% Chrysotile		98%
74	AB74 / Black tar-like	NAD		100%
75	AB75 / White powder	NAD		100%
76	AB76 / White powder & brwon fibers	NAD	25% Cellulose	75%
77	AB77 / Black powder	NAD		100%
78	AB78 / Black rubber	NAD		100%
79	AB79 / Black adhesive	NAD		100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/M4-82-020, Dec. 1982 and "Method for the Determination of Asbestos in Bulk Building Materials", EPA 600/R-93/116, July 1993. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report shall not be reproduced, except in full written approval of Triangle Environmental Service Center, Inc. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:



Feng Jiang, MS Senior Geologist, Laboratory Director  
Yuedong Fang, Senior Geologist

# TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midlothian, VA 23112

804-739-1751 • fax: 804-739-1753

## BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Macrotec Consulting  
9724 Mild Weather Ct.  
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DATE OF ANALYSIS: 10/16/2013  
DATE OF REPORT: 10/16/2013

CLIENT JOB: 13115

JOB SITE: 800 N Hwy 395

ANALYST: F. Jiang / Y. Fang

TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
80	AB80 / Black adhesive	NAD		100%
81	AB81 / White powder & fibers	20% Chrysotile		80%
82	AB82 / White fibers	20% Chrysotile	75% Cellulose	5%
83	AB83 / Red powder	3% Chrysotile		97%
84	AB84 / Black adhesive	5% Chrysotile		95%

**Total Samples/Layers Analyzed: 85**

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/M4-82-020, Dec. 1982 and "Method for the Determination of Asbestos in Bulk Building Materials", EPA 600/R-93/116, July 1993. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report shall not be reproduced, except in full written approval of Triangle Environmental Service Center, Inc. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:



Feng Jiang, MS Senior Geologist, Laboratory Director  
Yuedong Fang, Senior Geologist



1310151

# Macrotec Consulting, LLC

9724 Mild Weather Ct.  
Las Vegas, NV 89148

Phone: (702) 338-6213  
Fax: (702) 629-5677

## Bulk Sampling Chain of Custody Form

Client Name McGinley Project Number 13115  
 Project Name PPG Site Collection Date 10/12/13  
 Project Location 800 N Hwy 395 PO Number \_\_\_\_\_  
 Technician JRM/RB Turn Around Time 3 DAY  
 Laboratory TESC Method of Analysis PLM  
 Stop at 1st Positive?: Y/N Composite Sheet Rock?: Y/N Matrix BULK

Sample #		Sample Description (Material Type : Description : Color)	Sample Location (General : Room : Specific)	
H #	Count			
1	AB1	ACOUSTIC CEILING TEXTURE	House - 2nd Floor - Room 1 - NW CORNER	
1	AB2	↓	- Hall - Adj Mech Rm Door	
1	AB3		- Room 9 - CENTER	
1	AB4		- Room 7 - "	
1	AB5		- Room 2 - W SIDE	
2	AB6		PLASTER CEILING SUBSTRATE	- Room 1 - NW CORNER
2	AB7	↓	- Hall - Adj Mech Rm Door	
2	AB8		- Room 9 - CENTER	
2	AB9		- Bathroom - "	
2	AB10		- Room 3 - S END	
3	AB11		INTERIOR PLASTER WALLS	- Room 1 - W WALL
3	AB12	↓	- Mech Room - SWALL	
3	AB13		- Room 8 - "	
3	AB14		- Room 9 - N WALL	
3	AB15		- Room 3 - "	
3	AB16		- 1st Floor - Cat Room - NW CORNER	
3	AB17	↓	- " - Room 13 - N WALL	
4	AB18		9 x 9 BEIGE VCT	- 2nd Floor - Hall - S END
4	AB19		- " - " - New, Adj STAIRS	
4	AB20		- 1st Floor - Laundry Rm - Adj EXT. DOOR	

Relinquished By: [Signature] Date: 10/12/13 Received By: [Signature] Date: 10/15/13  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_



131015L

# Macrotec Consulting, LLC

9724 Mild Weather Ct.  
Las Vegas, NV 89148

Phone: (702) 338-8213  
Fax: (702) 629-5677

## Bulk Sampling Chain of Custody Form

Client Name McGinley Project Number 13115  
 Project Name PP6 SITE Collection Date 10/12/13  
 Project Location 800 N. Hwy 395 PO Number \_\_\_\_\_  
 Technician JRM/RB Turn Around Time 3 DAY  
 Laboratory TEC Method of Analysis PLM  
 Stop at 1st Positive?: Y/N Composite Sheet Rock?: Y/N Matrix BULK

Sample #		Sample Description (Material Type : Description : Color)	Sample Location (General : Room : Specific)
H #	Count		
5	AB21	BLACK FLOOR MASTIC	House - 2nd Floor - Hall - S END
5	AB22	↓	- " - " - N END, ADJ STAIRS
5	AB23		- 1st Floor - Laundry Room - ADJ EXT. DOOR
6	AB24	WINDOW PUTTY	- 2nd Floor - Room 9 - SE CORNER
6	AB25	↓	- Room 7 - W SIDE
6	AB26		- Room 1 - N SIDE
7	AB27	1'x1' Acoustic Ceiling Tile	- Room 3 - S END
8	AB28	Yellow <del>Base Core</del> <sup>Ceiling Tile</sup> MASTIC	- " - "
9	AB29	Brown Base Core MASTIC	- Room 6 - ADJ DOOR
10	AB30	Yellow Base Core MASTIC	- Hall - ADJ Room 7
11	AB31	12x12 Peel Stick Floor Tile	- 1st Floor - Room 13 - N END
12	AB32	Beige Concrete Crack Fill	- " - "
13	AB33	CANVAS DIRT WRAP	- CLOSET - ADJ DOOR
14	AB34	ELECTRICAL WIRE INSULATION	- Room 11 - "
15	AB35	YELLOW MASTIC ON DUCT	- Hall - E SIDE
16	AB36	12x12 off-white VCT	- CAT ROOM - ADJ EXT. DOOR
17	AB37	BLACK FLOOR MASTIC	- " - "
18	AB38	PUNTER SOFFIT	- EXTERIOR - N SIDE
18	AB39	↓	- W SIDE
18	AB40		- S SIDE

Relinquished By: [Signature] Date: 10/12/13 Received By: [Signature] Date: 10/15/13  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

131015L

# Macrotec Consulting, LLC

9724 Mild Weather Ct.  
Las Vegas, NV 89148

Phone: (702) 336-8213  
Fax: (702) 629-5677

## Bulk Sampling Chain of Custody Form

Client Name McGinley Project Number 13115  
 Project Name PP6 SITE Collection Date 10/12/13  
 Project Location 800 N. Hwy 395 PO Number \_\_\_\_\_  
 Technician JRM/RB Turn Around Time 3 DAY  
 Laboratory TSC Method of Analysis PLM  
 Stop at 1st Positive?: Y/N Composite Sheet Rock?: Y/N Matrix BULK

Sample #		Sample Description	Sample Location
H #	Count	(Material Type : Description : Color)	(General : Room : Specific)
19	AB41	Cement Roof Material	House - Main Roof - Center
20	AB42	Gray Roof Mastic	- E Side, on pipe
20	AB43	↓	- NW Corner, on parapet
20	AB44	↓	- Center, on crack
21	AB45	Gray Asphalt Roll Roofing	- Exterior - Debris, W of house
22	AB46	Black Tar Paper	↓
23	AB47	Black Roof Mastic	↓
24	AB48	Unfinished Drywall + Mud	Fabrication Block - Room 4 - Adj N Door
25	AB49	Black Floor Mastic	- Room 6 - W Side
25	AB50	↓	- Room 5 - "
25	AB51	↓	- Room 4 - S Side
24	AB52	Window Putty	- " - W Side
24	AB53	↓	- Room 2 - NE Corner
26	AB54	↓	- Exterior - Beam, W of Block
27	AB55	Electrical Wire Insulation	- Open Area - Center
28	AB56	Insulation in Man Door	- " - W Wall
29	AB57	Percutaneous Deck	- Above Roof - SW Corner
29	AB58	↓	- Center
29	AB59	↓	- NE Corner
30	AB60	Gray Roof Mastic	- Roof - S End

Relinquished By: [Signature] Date: 10/12/13 Received By: [Signature] Date: 10/15/13  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_



131015L

# Macrotec Consulting, LLC

9724 Mild Weather Ct.  
Las Vegas, NV 89148

Phone: (702) 338-6213  
Fax: (702) 629-5677

## Bulk Sampling Chain of Custody Form

Client Name McGINLEY Project Number 13115  
 Project Name PPG SITE Collection Date 10/12/13  
 Project Location 800 N. HWY 395 PO Number \_\_\_\_\_  
 Technician JRN/RB Turn Around Time 3 DAY  
 Laboratory T65C Method of Analysis PCM  
 Stop at 1st Positive?: Y/N Composite Sheet Rock?: Y/N Matrix BULK

Sample #		Sample Description (Material Type : Description : Color)	Sample Location (General : Room : Specific)
H #	Count		
31	AB61	LARGE GASKET ON DRIVEWAY	FOUNDOS - DRIVEWAY - ADJ FABRICATION BLOC.
32	AB62	SMALL GASKET ON DRIVEWAY	- " - ADJ MILL
33	AB63	TSI DEBRIS	- COLLAPSED BLOC - N SIDE
33	AB64	↓	- ↓ - CENTER
33	AB65	↓	- ↓ - S SIDE
34	AB66	CEMENTIOUS PANEL	- ↓ - "
35	AB67	LARGE TRANSITE PIPE	- ADJ COLLAPSED BLOC.
36	AB68	SMALL TRANSITE PIPE	- "
37	AB69	UST LID MATERIAL	- ADJ FABRICATION BLOC.
38	AB70	BLACK MATERIAL ON CONCRETE	↓ - FOUNDATIONS N OF FAB BLOC.
39	AB71	WINDOW PUTTY	MILL BLOC - INTERIOR - SE CORNER
39	AB72	↓	- ↓ - W SIDE
39	AB73	↓	- ↓ - N SIDE
40	AB74	BLACK MATERIAL ON FURNACE	- ↓ - CENTER
41	AB75	SPRAY TEXTURE ON NEW BATHROOM WALL	- ↓ - W SIDE
42	AB76	CEILING SUBSTRATE (DRYWALL + MUD) - SMOOTH	- ↓ - SMALL ROOM IN CENTER
43	AB77	BLACK FLOORING MATERIAL	- ↓ - S END
44	AB78	BLACK FLEX PIPE	- EXTERIOR - TOP OF NORTH HOPPER
45	AB79	BLACK ROOF MASTIC	- ↓ - ROOF, ADJ NORTH HOPPER
46	AB80	BLACK WALL MASTIC	↓ - ↓ - E WALL, <del>W</del> S END.

Relinquished By: [Signature] Date: 10/12/13 Received By: [Signature] Date: 10/15/13  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_



# Appendix F



DEPARTMENT OF INDUSTRIAL RELATIONS  
Division of Occupational Safety and Health  
Asbestos Unit  
2424 Arden Way, Suite 485  
Sacramento, CA 95825-2417  
(916) 574-2993 Office (916) 483-0572 Fax  
<http://www.dir.ca.gov/dir/databases.html> [actu@dir.ca.gov](mailto:actu@dir.ca.gov)



502073746C

275

**Stockton Environmental  
Randolph Lewis Brooke  
319 E. Banbury Drive  
Stockton**

, CA 95207

January 31, 2013

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address, fax number or email; of any changes in your contact/ mailing information within 15 days of the change.

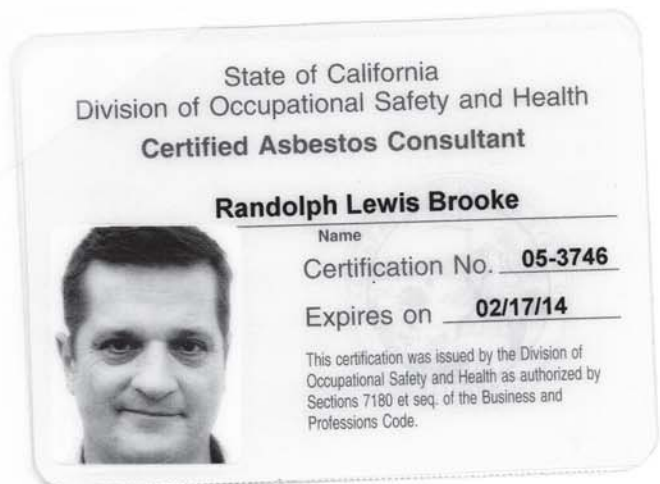
Sincerely,

Jeff Ferrell  
Senior Safety Engineer

Attachment: Certification Card

cc: File

Renewal – Card Attached (Revised 01/03/2012)







#### Conditions of Certification

This individual meets the requirements of the State of California, Department of Public Health (CDPH), to perform lead-related construction. CDPH may suspend or revoke certification for:

1. any false statement in the application (for certification);
2. violations of relevant local, state or federal statutes or regulations;
3. misrepresentation, failure to disclose relevant facts, fraud, or issuance by mistake; or
4. failure to comply with any relevant regulation or order of the Department.

This certificate was issued by the Department of Public Health as authorized by 17 CCR 35001 et seq., and is non-transferable.

To verify authenticity call  
(800) 597-LEAD or  
510-620-5600



United States Department of Commerce  
National Institute of Standards and Technology



---

# Certificate of Accreditation to ISO/IEC 17025:2005

---

NVLAP LAB CODE: 200794-0

**Triangle Environmental Service Center, Inc.**  
Midlothian, VA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:

## **BULK ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2013-04-01 through 2014-03-31

Effective dates

---



For the National Institute of Standards and Technology

# **APPENDIX B**

## **GPRS Report of Findings**

---



**GROUND  
PENETRATING  
RADAR  
SYSTEMS, INC.**

| Sunday, November 10, 2013

**McGinley and Associates**

**Site: 800 N Hwy 395, Lone Pine, CA**

**Attn: Brett Bottenberg**

**Re: GPR Investigation to Locate UST's and Underground Utilities**

We appreciate the opportunity to provide this report for our work completed on 11/5/13 at the above address in Lone Pine, CA.

**Purpose**

The purpose of the survey was to locate an underground storage tank (UST) that remained on the property and to locate any underground utilities near several proposed soil boring locations.

**Process**

Our process involves using Ground Penetrating Radar (GPR) and Radio Detection (RD) within the scan area. GPR uses electromagnetic pulses through the ground that reflect back to the antenna at different speeds off of different materials. We used a 400 MHz antenna with the SIR-3000 processing unit manufactured by GSSI. These represent the latest in GPR utility locating technology. This antenna is able to penetrate to depths of up to 8'-10' in ideal conditions. We first used GPR to scan the property in a grid pattern in order to look for any remaining UST's or tank-related piping or excavations. We then focused our scanning on the proposed soil boring locations and used RD to check each location for live power or communications signals.

**Findings**

We found that the soils in the area were favorable for GPR, allowing depth penetration to 6' or more in most areas of the property. We were able to locate a UST on the property along with related piping. The piping including what is assumed to be a conduit for the tank, a vent pipe, and a product line to the dispenser. The tank was only 1.5' deep to the top of the tank and the pipes were approximately 1' deep.

The following pages will further explain these findings.





Google earth

feet 200  
meters 80



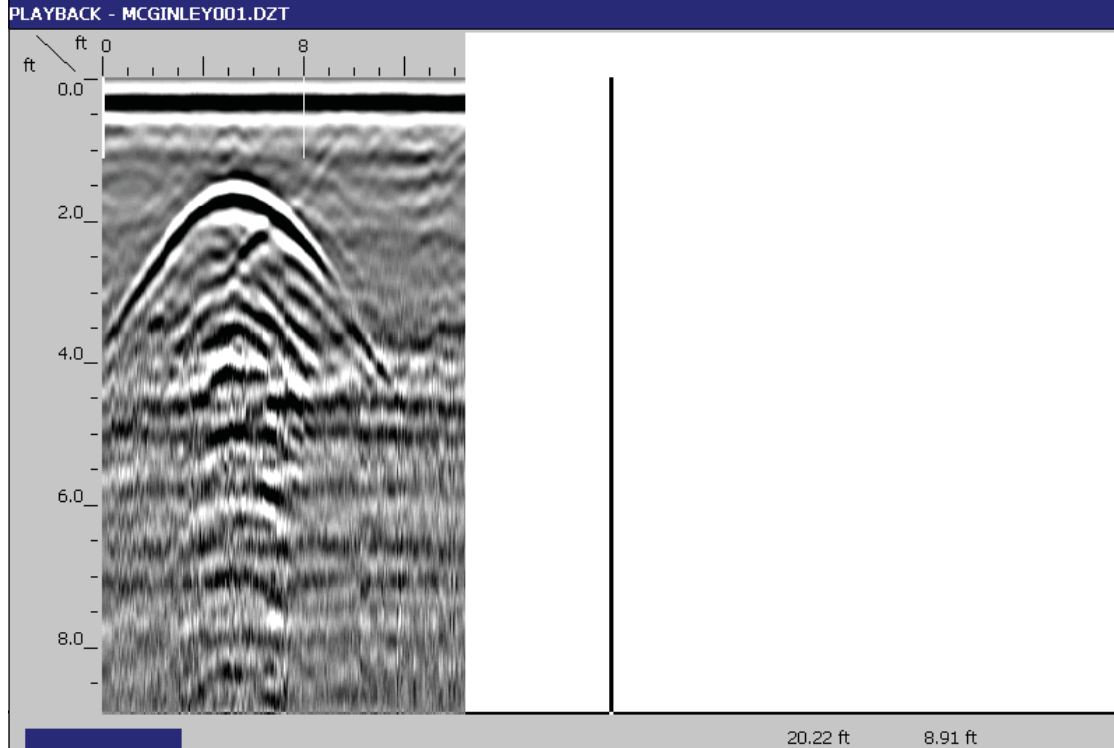
Above is a zoomed out view of our findings which are drawn to scale to the best of our abilities using Google Earth. The image below is a zoomed in view of the same findings. The dimensions will be provided on the following pages.

**White**=UST

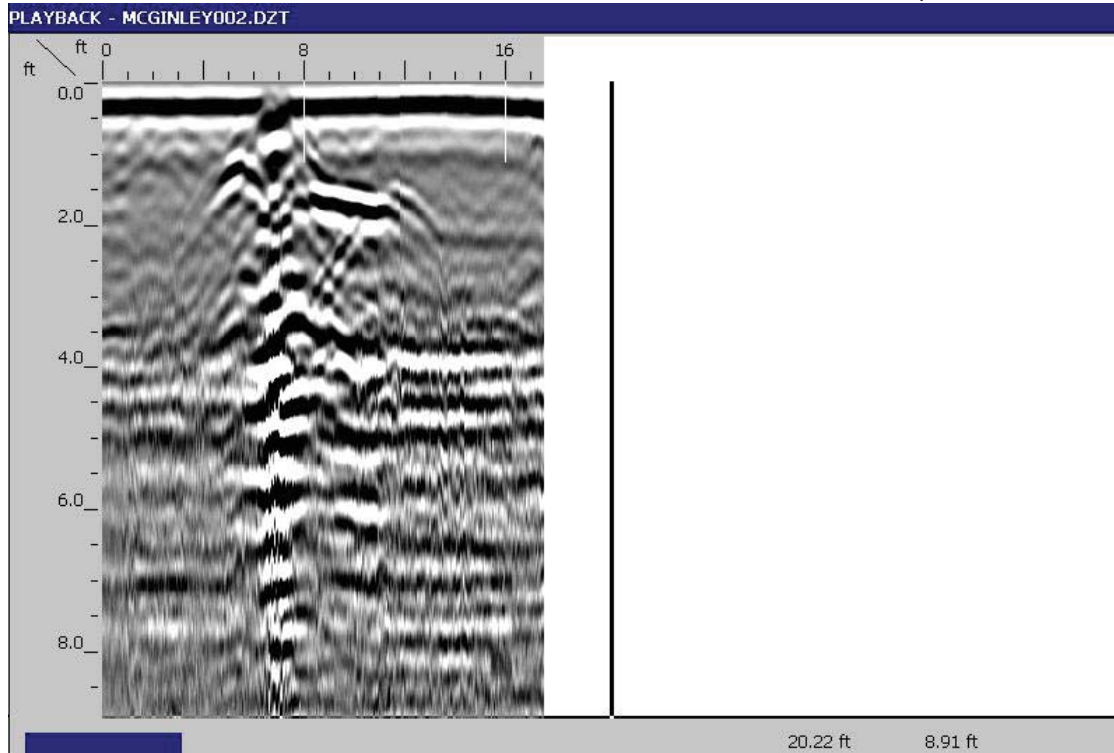
**Orange**=Vent and Product Line

**Red**=Conduit



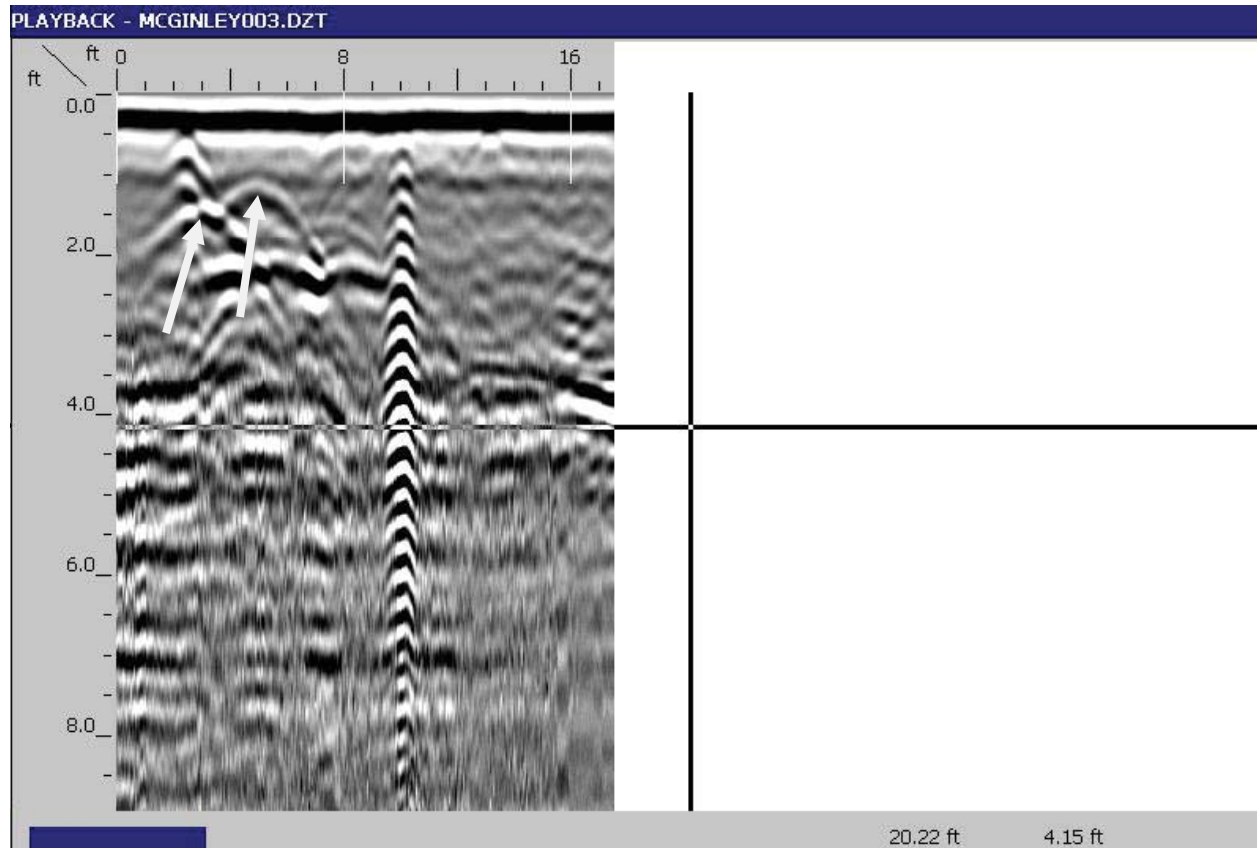


The above GPR data screen shot shows a scan collected across the tank that was found at this site. The depth scale is on the left and the distance of the scan is across the top, forming a cross section view of the subsurface. The top of the tank was 1.5' below the surface. The width of the tank cannot be measured by GPR.

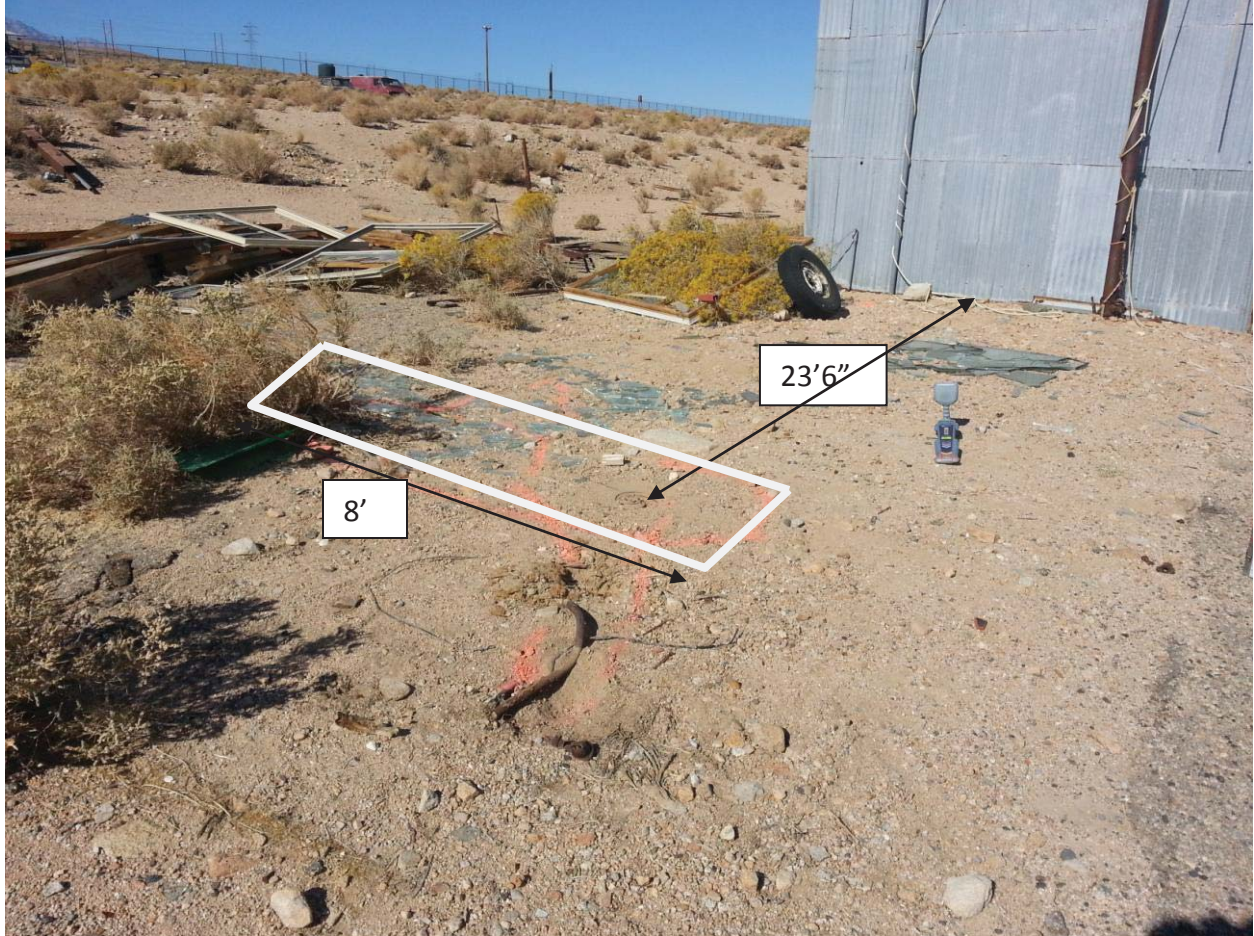


The above GPR data screen shot is a scan collected parallel along the tank from end to end. This scan shows the length of the tank to be approximately 8'.



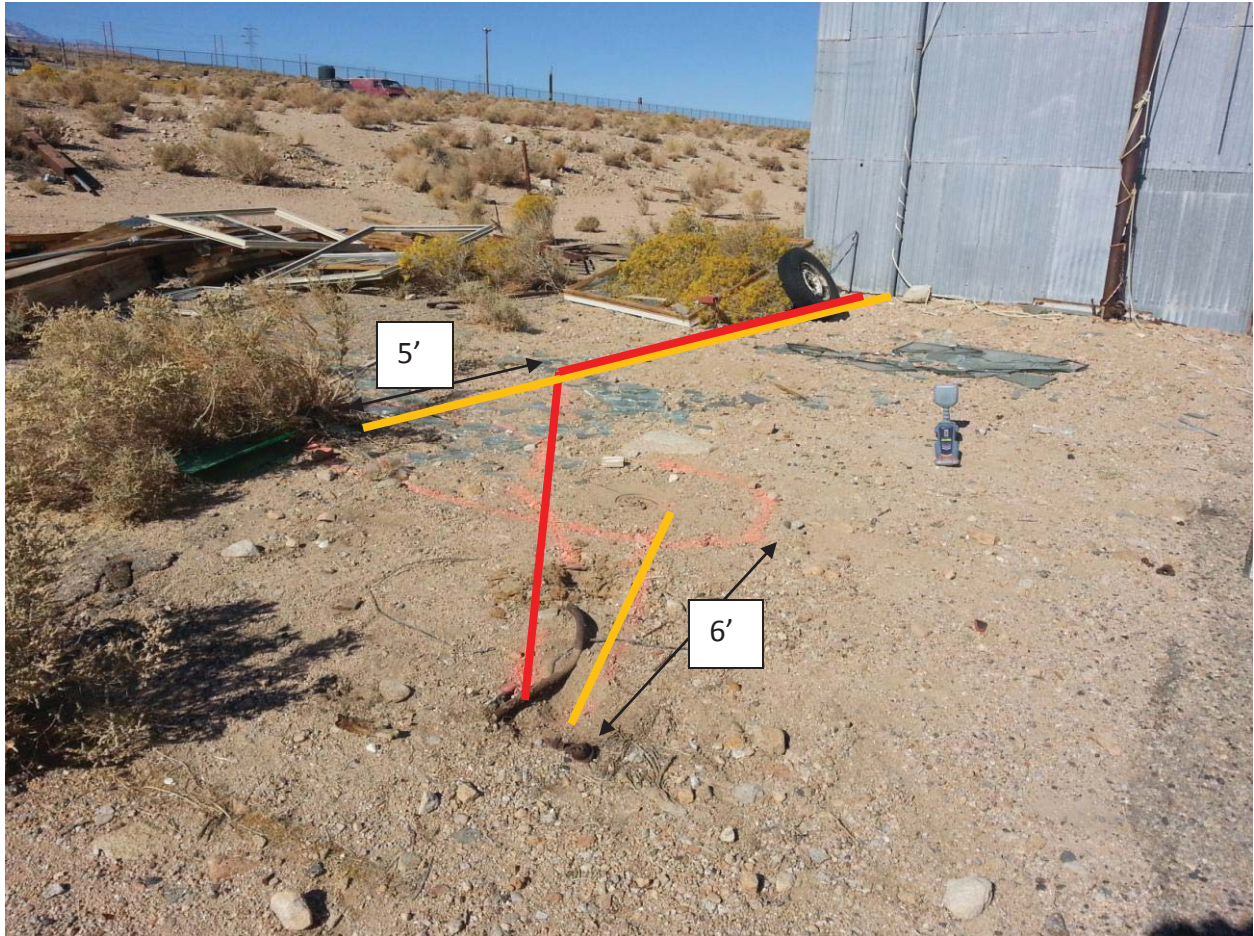


The above GPR data screen shot shows the vent pipe and the conduit that were found running near the tank. They are approximately 1' deep and are being pointed out by the arrows.



The above photo shows the location of the UST that was painted on the surface. It is highlighted in white in this photo. The dimensions are also shown above. The center of the tank is 23'6" from the face of the building. The tank is 8' long. The western end of the tank is 2'6" inside of/east of the corner of the building that is shown in the photo.





The above photo shows the location of the product line, vent pipe, and conduit that were marked on the surface at a depth of approximately 1'.





The above photo shows the GPR equipment that was used at the site.

Signed,

A handwritten signature in black ink, appearing to read "Jamie Althausen".

Jamie Althausen  
Regional Manager  
GPRS, Inc.  
Direct: 310-427-1358  
Fax: 419-843-5829  
[jamie.althausen@gp-radar.com](mailto:jamie.althausen@gp-radar.com)  
[www.gp-radar.com](http://www.gp-radar.com)

# **APPENDIX C**

## **Soil Boring Logs**

---

Project #: LVBEC007

# Log: SB-1

Project: PPG Industries

Client: BEC Environmental

Supervisor: J.Fike

Site Location: Cartago, CA

Reviewed by: B.Bottenberg



McGinley & Associates  
www.mcgin.com

## SAMPLES/LITHOLOGIC/MEASUREMENTS

Depth (fbgs)	Sample Interval	Lithologic Symbol	Lithologic Description	PID (ppm)
0			Ground Surface	
1	█	[Symbol: Dotted pattern with vertical lines]	<i>Silty SAND w/Gravel (SM/GP)</i> Light yellow brown (10YR 7/4), dry. Decomposed granite. 10% medium gravel. Sub-angular. 70% poorly graded Sand. Fine to medium grained with trace coarse. Sub-angular and sub-rounded. 20% silt. No plasticity. Medium dense. No hydrocarbon (HC) odor.	0.0
2				
3				
4				
5	█		Increased gravel content.	0.0
6		[Symbol: Dotted pattern with small circles]	<i>SAND w/Gravel (SP)</i> Light yellow brown (10YR 7/4), dry. 20% medium gravel. Sub-angular. 80% poorly graded sand. Predominantly fine grained with some medium. Sub-angular and sub-rounded. Slight cementation. Medium dense. No HC odor.	
7				
8		[Symbol: Dotted pattern with small circles]	<i>DP REFUSAL</i>	1.9
9		[Symbol: Dotted pattern with vertical lines]	<i>Well Graded SAND (SW)</i> Yellowish brown with black flakes (10YR 6/8), dry. 100% well graded sand. Fine to coarse grained. Sub-angular and sub-rounded. Medium dense. Slight HC odor.	
10				
11				
12		[Symbol: Dotted pattern with vertical lines]	<i>Silty SAND (SM)</i> Yellowish brown with black flakes (10YR 6/8) mottled with reddish brown (2.5YR 4/8), damp to moist. 70% well graded sand. Fine to coarse grained. Sub-angular and sub-rounded. 30% silt. Little to no plasticity. Medium dense. Strong HC odor.	2010
13				
14				
15	█			
16		[Symbol: Dotted pattern with vertical lines]	Trace rock.	2570
17				
18				
19				
20	█			
21		[Symbol: Dotted pattern with vertical lines]	Increasing sand.	4000
22				
23				
24				
25	█		Becomes reddish brown (2.5YR 4/3).	
26		[Symbol: Dotted pattern with vertical lines]		
27				
28				
29				
30	█			
31		[Symbol: Horizontal lines]	<i>Silt (ML)</i> White and tan (10YR 8/2), damp. Slight plasticity. Trace fine sand. Hard. Strong HC odor.	4000 3260
32		[Symbol: Horizontal lines]	Refusal at 32 fbgs.	
33				
34				
35			End of Borehole	

Driller: Cascade

Date: 11-6-13

Drilling Method: Direct Push/Hollow Stem Auger

Sampling Method: Continuous Core/Split Spoon

Hole Diameter: 2.5 inches/6 inches

Note: Modified rig from DP to HSA due to DP refusal at 8 fbgs.



Project #: LVBEC007

# Log: SB-2

Project: PPG Industries

Client: BEC Environmental

Supervisor: J.Fike

Site Location: Cartago, CA

Reviewed by: B.Bottenberg



McGinley & Associates  
www.mcgin.com

## SAMPLES/LITHOLOGIC/MEASUREMENTS

Depth (fbgs)	Sample Interval	Lithologic Symbol	Lithologic Description	PID (ppm)
0			Ground Surface	
1	█	[Symbol: Dotted pattern with vertical lines]	<i>Silty SAND w/Gravel (SM/GP)</i> Light yellow brown (10YR 7/4), dry. Decomposed granite. 10% medium gravel. Sub-angular. 70% poorly graded Sand. Fine to medium grained with trace coarse. Sub-angular and sub-rounded. 20% silt. No plasticity. Medium dense. No hydrocarbon (HC) odor.	3.5
2				
3				
4				
5	█		Increased gravel content.	2.6
6				
7		[Symbol: Dotted pattern with small circles]	<i>SAND w/Gravel (SP)</i> Light yellow brown (10YR 7/4), dry. 20% medium gravel. Sub-angular. 80% poorly graded sand. Predominantly fine grained with some medium. Sub-angular and sub-rounded. Slight cementation. Medium dense. No HC odor.	
8				
9				
10	█		<i>DP REFUSAL</i>	1.6
11				
12			<i>Well Graded SAND (SW)</i> Yellowish brown with black flakes (10YR 6/8), dry. 100% well graded sand. Fine to coarse grained. Sub-angular and sub-rounded. Medium dense. Slight HC odor.	
13				
14				
15	█		<i>Silty SAND (SM)</i> Blackish brown (10YR 2/1) with gold flakes, dry. 70% well graded sand. Fine to coarse grained. Sub-angular and sub-rounded. 30% silt. Some gold mica flakes. Little to no plasticity. Medium dense. No HC odor.	1.7
16				
17				
18				
19			<i>Silty SAND w/Gravel (SM/GP)</i> Reddish brown (7.5YR 4/3), damp. 15% medium to coarse gravel. Sub-angular. 60% poorly graded sand. Fine and medium grained. Sub-angular and sub-rounded. 25% silt. Little to no plasticity. Dense. No HC odor.	
20	█			1.1
21				
22			Refusal at 22 fbgs.	
23				
24			End of Borehole	
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				

Driller: Cascade

Date: 11-6-13

Drilling Method: Direct Push/Hollow Stem Auger

Sampling Method: Continuous Core/Split Spoon

Hole Diameter: 2.5 inches/6 inches

Note: Modified rig from DP to HSA due to DP refusal at 7 fbgs.

Project #: LVBEC007

# Log: SB-3

Project: PPG Industries

Client: BEC Environmental

Supervisor: J.Fike

Site Location: Cartago, CA

Reviewed by: B.Bottenberg



McGinley & Associates  
www.mcgin.com

## SAMPLES/LITHOLOGIC/MEASUREMENTS

Depth (fbgs)	Sample Interval	Lithologic Symbol	Lithologic Description	PID (ppm)
0			Ground Surface <i>Weathered Concrete</i>	3.7
1			<i>SAND w/Gravel (SP)</i> Reddish brown (2.5YR 4/3), damp. 85% poorly graded sand. Fine to medium grained. Sub-angular and sub-rounded. 15% fine gravel. Sub-rounded. No Hydrocarbon (HC) odor.	
2			<i>GRAVEL (GP)</i> 100% coarse gravel. Sub-angular and sub-rounded.	
3			<i>SAND w/Silt and Gravel (SP)</i> Light brown (7.5YR 6/4), damp. 10% coarse gravel. Sub-angular. 80% poorly graded sand. Fine to medium grained. Sub-angular and sub-rounded. 10% silt. No plasticity. No HC odor.	
5			End of Borehole	
6				
7				
8				
9				
10				

Driller: Cascade

Date: 11-7-13

Drilling Method: Direct Push

Sampling Method: Continuous Core

Hole Diameter: 2.5 inches

Note:

Project #: LVBEC007

# Log: SB-4

Project: PPG Industries

Client: BEC Environmental

Supervisor: J.Fike

Site Location: Cartago, CA

Reviewed by: B.Bottenberg



McGinley & Associates  
www.mcgin.com

## SAMPLES/LITHOLOGIC/MEASUREMENTS

Depth (fbgs)	Sample Interval	Lithologic Symbol	Lithologic Description	PID (ppm)
0			Ground Surface <i>Weathered Concrete</i>	4.2
1			<i>SAND w/Gravel (SP)</i> Reddish brown (2.5YR 4/3), damp. 85% poorly graded sand. Fine to medium grained. Sub-angular and sub-rounded. 15% fine gravel. Sub-rounded. No Hydrocarbon (HC) odor.	
2			<i>GRAVEL (GP)</i> 100% coarse gravel. Sub-angular and sub-rounded.	
3			<i>SAND w/Silt and Gravel (SP)</i> Light brown (7.5YR 6/4), damp. 10% coarse gravel. Sub-angular. 80% poorly graded sand. Fine to medium grained. Sub-angular and sub-rounded. 10% silt. No plasticity. No HC odor.	
4			Becomes reddish brown (2.5YR 4/3), slight HC odor.	
5			End of Borehole	
6				
7				
8				
9				
10				

Driller: Cascade

Date: 11-7-13

Drilling Method: Direct Push

Sampling Method: Continuous Core

Hole Diameter: 2.5 inches

Note:

# **APPENDIX D**

## **En Core Sampler – Manufacturer Recommendations**

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# Disposable En Core® Sampler



**En Novative Technologies, Inc.**

1795 Industrial Drive

Green Bay, WI 54302

Phone: 920-465-3960 • Fax: 920-465-3963

Toll Free: 888-411-0757

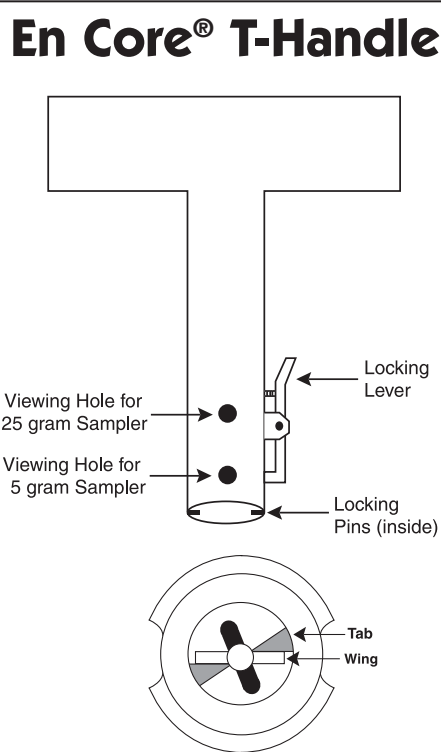
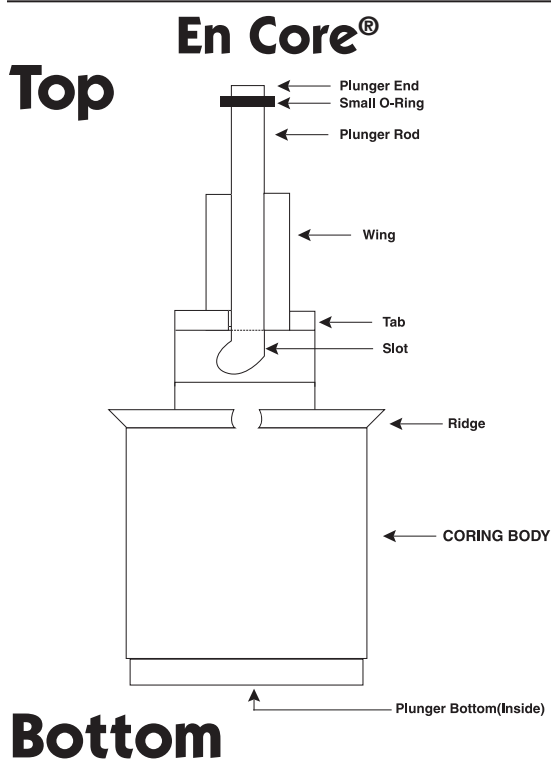
www.ennovativetech.com

## Sampling Procedures

**NOTE:**

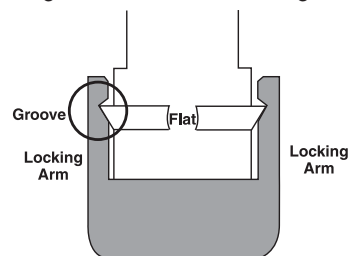
1. En Core® Sampler is a SINGLE USE device. It cannot be cleaned and/or reused.
2. En Core® Sampler is designed to store soil. Do not use En Core Sampler to store solvent or free product!
3. En Core® Sampler must be used with En Core® T-Handle and/or En Core® Extrusion Tool exclusively. (These items are sold separately.)

## Using The En Core® T-Handle



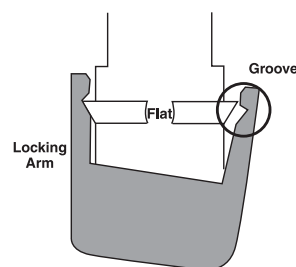
### **Sampler Correctly Capped**

(Locking arm grooves seated over coring body ridge.)



### **Sampler Incorrectly Capped**

(Cap appears crooked; locking arm grooves not fully seated over coring body ridge.)



#### **BEFORE TAKING SAMPLE:**

1. Hold **coring body** and push **plunger rod** down until **small o-ring** rests against **tabs**. This will assure that plunger moves freely.

2. Depress **locking lever** on En Core T-Handle. Place coring body, **plunger end first**, into open end of T-Handle, *aligning the (2) slots on the coring body with the (2) locking pins in the T-Handle*. Twist coring body clockwise to lock pins in slots. Check to ensure Sampler is locked in place. Sampler is ready for use.

#### **TAKING SAMPLE:**

3. Turn T-Handle with T-up and coring body down. This positions plunger bottom flush with bottom of coring body (ensure that plunger bottom is in position). Using T-Handle, push Sampler into soil until coring body is completely full. When full, small o-ring will be centered in T-Handle **viewing hole**. Remove Sampler from soil. Wipe excess soil from coring body exterior.

4. Cap coring body while it is still on T-handle. *Push* cap over **flat** area of **ridge** *and twist* to lock cap in place. **CAP MUST BE SEATED TO SEAL SAMPLER (see diagram).**

#### **PREPARING SAMPLER FOR SHIPMENT:**

5. Remove the capped Sampler by depressing locking lever on T-Handle while twisting and pulling Sampler from T-Handle.

6. Lock plunger by rotating extended plunger rod fully counter-clockwise until **wings** rest firmly against tabs (see plunger diagram).

7. Attach completed tear-off label (from En Core Sampler bag) to cap on coring body.

8. Return full En Core Sampler to zipper bag. Seal bag and put on ice.



# Disposable En Core® Sampler

## **EXTRUSION PROCEDURES**

### USING THE En Core® EXTRUSION TOOL

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**CAUTION!** Always use the Extrusion Tool to extrude soil from the En Core Sampler. If the Extrusion Tool is not used, the Sampler may fragment, causing injury.

1. To attach En Core Sampler to En Core Extrusion Tool: Depress locking lever on Extrusion Tool and place Sampler, plunger end first, into open end of Extrusion Tool, aligning slots on coring body with pins in Extrusion Tool. Turn coring body clockwise until it locks into place. Release locking lever.

2. Rotate and gently push Extrusion Tool plunger knob clockwise until plunger slides over wings of coring body. (When properly positioned plunger will not rotate further.)

3. Hold Extrusion Tool with capped Sampler pointed upward so soil does not fall out when cap is removed. Remove cap from Sampler by rotating cap until locking arms are aligned with the flat area of ridge and pull cap off. To release soil core push down on plunger knob of En Core Extrusion Tool. Remove and properly dispose of En Core Sampler.

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## Warranty and Disclaimers

**IMPORTANT:** FAILURE TO USE THE EN CORE® SAMPLER IN COMPLIANCE WITH THE WRITTEN INSTRUCTIONS PROVIDED HEREIN VOIDS ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

**PRINCIPLE OF USE.** The En Core Sampler Cartridge System is a volumetric sampling system designed to collect, store and deliver a soil sample. The En Core Sampler comes in two sizes for sample volumes of approximately 25 or 5 grams. There are four components: the cartridge with a movable plunger; a cap with two locking arms; a T-handle (purchased separately); and an extrusion handle (purchased separately). NOTE: The En Core Sampler is designed to store soil. It is not designed to store solvent or free product.

The soil is stored in a sealed headspace-free state. The seals are achieved by three special Viton® \* o-rings, two located on the plunger and one on the cap of the Sampler. At no time and under no condition should these o-rings be removed or disturbed.

**QUALITY CONTROL.** The cartridge is sealed in an airtight package to prevent contamination prior to use. Due to the stringent quality control requirements associated with the use of this system, the disposable cartridge is designed to be used only once.

**WARRANTY.** En Novative Technologies, Inc. ("En Novative Technologies") warrants that the En Core Sampler shall perform consistent with the research conducted under En Novative Technologies' approval, within thirty (30) days from the date of delivery, provided that the Customer gives En Novative Technologies prompt notice of any defect or failure to perform and satisfactory proof thereof. THIS WARRANTY DOES NOT APPLY TO THE FOLLOWING, AS SOLELY DETERMINED BY EN NOVATIVE TECHNOLOGIES: (a) Damage caused by accident, abuse, mishandling or dropping; (b) Samplers that have been opened, taken apart or mishandled; (c) Samplers not used in accordance with the directions; and (d) Damages exceeding the cost of the sampler. Seller warrants that all En Core Samplers shall be free from defects in title. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, WHETHER ORAL, WRITTEN, EXPRESSED, IMPLIED OR STATUTORY, INCLUDING ANY INFORMATION PROVIDED BY SALES REPRESENTATIVES OR IN MARKETING LITERATURE. IMPLIED WARRANTIES OF FITNESS AND MERCHANTABILITY SHALL NOT APPLY. En Novative Technologies' warranty obligations and Customer's remedies, except as to title, are solely and exclusively as stated herein.

**LIMITATION OF LIABILITY.** IN NO EVENT SHALL EN NOVATIVE TECHNOLOGIES

BE LIABLE FOR ANTICIPATED PROFITS, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF REVENUE, DOWN TIME, REMEDIATION ACTIVITIES, REMOBILIZATION OR RESAMPLING, COST OF CAPITAL, SERVICE INTERRUPTION OR FAILURE OF SUPPLY, LIABILITY OF CUSTOMER TO A THIRD PARTY, OR FOR LABOR, OVERHEAD, TRANSPORTATION, SUBSTITUTE SUPPLY SOURCES OR ANY OTHER EXPENSE, DAMAGE OR LOSS, INCLUDING PERSONAL INJURY OR PROPERTY DAMAGE. En Novative Technologies' liability on any claim of any kind shall be replacement of the En Core Sampler or refund of the purchase price. En Novative Technologies shall not be liable for penalties of any description whatsoever. In the event the En Core Sampler will be utilized by Customer on behalf of a third party, such third party shall not occupy the position of a third-party beneficiary of the obligation or warranty provided by En Novative Technologies, and no such third party shall have the right to enforce same. All claims must be brought within one (1) year of shipment, regardless of their nature.



### **En Novative Technologies, Inc.**

1795 Industrial Drive  
Green Bay, WI 54302

Phone: 920-465-3960 • Fax: 920-465-3963

Toll Free: 888-411-0757

[www.ennovativetech.com](http://www.ennovativetech.com)

The En Core™ Sampler is covered by One or More of the Following U.S. Patents: 5,343,771; 5,505,098; 5,517,868; 5,522,271. Other U.S. and Foreign Patents Pending.

\* Viton® is a registered trademark of DuPont Dow Elastomers.

# **APPENDIX E**

## **Soil Sample Identification Scheme**

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<b>Sample Identification Scheme</b>					
<b>Sub-Surface Samples</b>					
Sample ID	Location ID	Matrix	Depth (fbgs)	Sample #	Corresponding Analytical Suite
SB1-S-20-1	Soil Boring 1	Soil	20	1	VOCs
SB1-S-20-2	Soil Boring 1	Soil	20	2	TPH-GRO
SB1-S-20-3	Soil Boring 1	Soil	20	3	TPH-DRO, TPH-ORO
SB1-S-20-4	Soil Boring 1	Soil	20	4	Metals
<b>Surface Samples</b>					
Sample ID	Location ID	Matrix	Depth (fbgs)	Sample #	Corresponding Analytical Suite
SS1-S-0.25-1	Surface Sample 1	Soil	0.25	1	VOCs
SS1-S-0.25-2	Surface Sample 1	Soil	0.25	2	TPH-GRO
SS1-S-0.25-3	Surface Sample 1	Soil	0.25	3	TPH-DRO, TPH-ORO
SS1-S-0.25-4	Surface Sample 1	Soil	0.25	4	Metals

Note: No groundwater samples were collected at the subject site.

# **APPENDIX F**

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## **Chain-of-Custody Records and Analytical Reports for Sub-Surface Soil Samples**

November 15, 2013

Brett Bottenberg  
Mc.Ginley and Associates  
6280 S. Valley View Blvd. Suite 604  
Las Vegas, NV 89118

TEL: (702) 260-4961  
FAX: (702) 260-4968

CA-ELAP No.:2676  
NV Cert. No.:NV-009222007A

Workorder No.: N011401

RE: PPG INDUSTRIES, LVBEC007

Attention: Brett Bottenberg

Enclosed are the results for sample(s) received on November 07, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

for 

Jose Tenorio Jr.  
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



**Advanced Technology  
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691



---

**CLIENT:** Mc.Ginley and Associates  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab Order:** N011401

---

**CASE NARRATIVE**

**SAMPLE RECEIVING/GENERAL COMMENTS:**

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

**Analytical Comments for EPA 6010B:**

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Silver possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

**Analytical Comments for EPA 8015B\_DRO/ORO:**

RPD for Matrix Spike(MS) and Matrix Spike Duplicate(MSD) is outside criteria ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

**Analytical Comments for EPA 8260B:**

Surrogate 4-Bromofluorobenzene recovery was below the laboratory acceptable limit for N011401-011 possibly due to matrix interference. Reanalysis confirms low recovery caused by matrix effect.

Dilution was necessary on samples N011401-013, N011401-017, N011401-021, N011401-025 due to high concentration of some analytes.

**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011401-001

**Client Sample ID:** SB1-S-1-1  
**Collection Date:** 11/6/2013 9:15:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131107A	QC Batch:	Q13VS023	PrepDate:	11/7/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,1,1-Trichloroethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,1,2,2-Tetrachloroethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,1,2-Trichloroethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,1-Dichloroethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,1-Dichloroethene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,1-Dichloropropene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,2,3-Trichlorobenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,2,3-Trichloropropane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,2,4-Trichlorobenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,2,4-Trimethylbenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,2-Dibromo-3-chloropropane	ND	11	µg/Kg	1	11/7/2013 03:26 PM		
1,2-Dibromoethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,2-Dichlorobenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,2-Dichloroethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,2-Dichloropropane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,3,5-Trimethylbenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,3-Dichlorobenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,3-Dichloropropane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
1,4-Dichlorobenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
2,2-Dichloropropane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
2-Chlorotoluene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
4-Chlorotoluene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
4-Isopropyltoluene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Benzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Bromobenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Bromodichloromethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Bromoform	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Bromomethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Carbon tetrachloride	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Chlorobenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Chloroethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Chloroform	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Chloromethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
cis-1,2-Dichloroethene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
cis-1,3-Dichloropropene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



**Advanced Technology  
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011401-001

**Client Sample ID:** SB1-S-1-1  
**Collection Date:** 11/6/2013 9:15:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131107A	QC Batch:	Q13VS023	PrepDate:	11/7/2013	Analyst:	QBM
Dibromochloromethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Dibromomethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Dichlorodifluoromethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Ethylbenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Hexachlorobutadiene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Isopropylbenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
m,p-Xylene	ND	11	µg/Kg	1	11/7/2013 03:26 PM		
Methylene chloride	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
MTBE	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
n-Butylbenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
n-Propylbenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Naphthalene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
o-Xylene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
sec-Butylbenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Styrene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
tert-Butylbenzene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Tetrachloroethene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Toluene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
trans-1,2-Dichloroethene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Trichloroethene	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Trichlorofluoromethane	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Vinyl chloride	ND	5.3	µg/Kg	1	11/7/2013 03:26 PM		
Surr: 1,2-Dichloroethane-d4	120	63-139	%REC	1	11/7/2013 03:26 PM		
Surr: 4-Bromofluorobenzene	86.9	75-124	%REC	1	11/7/2013 03:26 PM		
Surr: Dibromofluoromethane	105	70-133	%REC	1	11/7/2013 03:26 PM		
Surr: Toluene-d8	104	80-123	%REC	1	11/7/2013 03:26 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011401-002

**Client Sample ID:** SB1-S-1-2  
**Collection Date:** 11/6/2013 9:20:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B**

RunID: GC4_131111A	QC Batch: E13VS118	PrepDate: 11/7/2013	Analyst: <b>PN</b>
GRO	ND	1.1	mg/Kg
Surr: Chlorobenzene - d5	90.6	51-136	%REC

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011401-003

**Client Sample ID:** SB1-S-1-3  
**Collection Date:** 11/6/2013 9:20:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	26	10		mg/Kg	1	11/11/2013 02:47 PM
ORO	20	10		mg/Kg	1	11/11/2013 02:47 PM
Surr: p-Terphenyl	74.1	52-175		%REC	1	11/11/2013 02:47 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-1-4
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 9:20:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-004		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471</b>			<b>EPA 7471A</b>			
RunID: AA1_131111A	QC Batch: 44324			PrepDate: 11/8/2013		Analyst: LCC
Mercury	ND	0.10		mg/Kg	1	11/11/2013
<b>ICP METALS</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: ICP2_131113A	QC Batch: 44323			PrepDate: 11/8/2013		Analyst: JAA
Arsenic	4.3	1.0		mg/Kg	1	11/13/2013 09:45 AM
Barium	29	1.0		mg/Kg	1	11/13/2013 09:45 AM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 09:45 AM
Chromium	1.8	1.0		mg/Kg	1	11/13/2013 09:45 AM
Lead	17	1.0		mg/Kg	1	11/13/2013 09:45 AM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 09:45 AM
Silver	ND	1.0		mg/Kg	1	11/13/2013 09:45 AM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011401-005

**Client Sample ID:** SB1-S-5-1  
**Collection Date:** 11/6/2013 9:55:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131113A	QC Batch:	Q13VS026	PrepDate:	11/7/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,1,1-Trichloroethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,1,2,2-Tetrachloroethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,1,2-Trichloroethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,1-Dichloroethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,1-Dichloroethene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,1-Dichloropropene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,2,3-Trichlorobenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,2,3-Trichloropropane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,2,4-Trichlorobenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,2,4-Trimethylbenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,2-Dibromo-3-chloropropane	ND	12	µg/Kg	1	11/13/2013 05:12 PM		
1,2-Dibromoethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,2-Dichlorobenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,2-Dichloroethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,2-Dichloropropane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,3,5-Trimethylbenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,3-Dichlorobenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,3-Dichloropropane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
1,4-Dichlorobenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
2,2-Dichloropropane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
2-Chlorotoluene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
4-Chlorotoluene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
4-Isopropyltoluene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
Benzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
Bromobenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
Bromodichloromethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
Bromoform	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
Bromomethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
Carbon tetrachloride	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
Chlorobenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
Chloroethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
Chloroform	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
Chloromethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
cis-1,2-Dichloroethene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		
cis-1,3-Dichloropropene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-5-1
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 9:55:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-005		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS6_131113A	QC Batch: Q13VS026	PrepDate: 11/7/2013	Analyst: QBM		
Dibromochloromethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Dibromomethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Dichlorodifluoromethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Ethylbenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Hexachlorobutadiene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Isopropylbenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
m,p-Xylene	ND	12	µg/Kg	1	11/13/2013 05:12 PM
Methylene chloride	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
MTBE	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
n-Butylbenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
n-Propylbenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Naphthalene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
o-Xylene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
sec-Butylbenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Styrene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
tert-Butylbenzene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Tetrachloroethene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Toluene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
trans-1,2-Dichloroethene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Trichloroethene	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Trichlorofluoromethane	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Vinyl chloride	ND	5.8	µg/Kg	1	11/13/2013 05:12 PM
Surr: 1,2-Dichloroethane-d4	96.2	63-139	%REC	1	11/13/2013 05:12 PM
Surr: 4-Bromofluorobenzene	84.0	75-124	%REC	1	11/13/2013 05:12 PM
Surr: Dibromofluoromethane	87.5	70-133	%REC	1	11/13/2013 05:12 PM
Surr: Toluene-d8	92.6	80-123	%REC	1	11/13/2013 05:12 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-5-2
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 10:05:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-006		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GASOLINE RANGE ORGANICS BY GC/FID</b>						
				<b>EPA 8015B</b>		
RunID: GC4_131111A	QC Batch: E13VS118			PrepDate: 11/7/2013		Analyst: <b>PN</b>
GRO	ND	1.1		mg/Kg	1	11/11/2013 12:06 PM
Surr: Chlorobenzene - d5	104	51-136		%REC	1	11/11/2013 12:06 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011401-007

**Client Sample ID:** SB1-S-5-3  
**Collection Date:** 11/6/2013 10:10:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>		<b>EPA 8015B</b>			
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	11	9.9		mg/Kg	1	11/11/2013 03:12 PM
ORO	ND	9.9		mg/Kg	1	11/11/2013 03:12 PM
Surr: p-Terphenyl	99.6	52-175		%REC	1	11/11/2013 03:12 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-5-4
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/10/2013 10:10:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-008		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471</b>			<b>EPA 7471A</b>			
RunID: AA1_131111A	QC Batch: 44324			PrepDate: 11/8/2013		Analyst: LCC
Mercury	ND	0.10		mg/Kg	1	11/11/2013
<b>ICP METALS</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: ICP2_131113A	QC Batch: 44323			PrepDate: 11/8/2013		Analyst: JAA
Arsenic	2.6	1.0		mg/Kg	1	11/13/2013 09:53 AM
Barium	24	1.0		mg/Kg	1	11/13/2013 09:53 AM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 09:53 AM
Chromium	1.1	1.0		mg/Kg	1	11/13/2013 09:53 AM
Lead	3.3	1.0		mg/Kg	1	11/13/2013 09:53 AM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 09:53 AM
Silver	ND	1.0		mg/Kg	1	11/13/2013 09:53 AM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-10 <sup>-</sup> 3
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 10:45:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-009		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	29	10		mg/Kg	1	11/11/2013 03:38 PM
ORO	11	10		mg/Kg	1	11/11/2013 03:38 PM
Surr: p-Terphenyl	104	52-175		%REC	1	11/11/2013 03:38 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-10'-4
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 10:45:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-010		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471</b>			<b>EPA 7471A</b>			
RunID: AA1_131111A	QC Batch: 44324			PrepDate: 11/8/2013		Analyst: LCC
Mercury	ND	0.099		mg/Kg	1	11/11/2013
<b>ICP METALS</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: ICP2_131113A	QC Batch: 44323			PrepDate: 11/8/2013		Analyst: JAA
Arsenic	4.0	1.0		mg/Kg	1	11/13/2013 09:59 AM
Barium	45	1.0		mg/Kg	1	11/13/2013 09:59 AM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 09:59 AM
Chromium	2.1	1.0		mg/Kg	1	11/13/2013 09:59 AM
Lead	5.4	1.0		mg/Kg	1	11/13/2013 09:59 AM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 09:59 AM
Silver	ND	1.0		mg/Kg	1	11/13/2013 09:59 AM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-10'-1
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:00:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-011		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131107A	QC Batch:	Q13VS023	PrepDate:	11/7/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,1,1-Trichloroethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,1,2,2-Tetrachloroethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,1,2-Trichloroethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,1-Dichloroethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,1-Dichloroethene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,1-Dichloropropene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,2,3-Trichlorobenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,2,3-Trichloropropane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,2,4-Trichlorobenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,2,4-Trimethylbenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,2-Dibromo-3-chloropropane	ND	12	µg/Kg	1	11/7/2013 04:10 PM		
1,2-Dibromoethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,2-Dichlorobenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,2-Dichloroethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,2-Dichloropropane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,3,5-Trimethylbenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,3-Dichlorobenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,3-Dichloropropane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
1,4-Dichlorobenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
2,2-Dichloropropane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
2-Chlorotoluene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
4-Chlorotoluene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
4-Isopropyltoluene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
Benzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
Bromobenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
Bromodichloromethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
Bromoform	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
Bromomethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
Carbon tetrachloride	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
Chlorobenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
Chloroethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
Chloroform	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
Chloromethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
cis-1,2-Dichloroethene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		
cis-1,3-Dichloropropene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-10'-1
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:00:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-011		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS6_131107A	QC Batch: Q13VS023	PrepDate: 11/7/2013	Analyst: QBM		
Dibromochloromethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Dibromomethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Dichlorodifluoromethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Ethylbenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Hexachlorobutadiene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Isopropylbenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
m,p-Xylene	ND	12	µg/Kg	1	11/7/2013 04:10 PM
Methylene chloride	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
MTBE	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
n-Butylbenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
n-Propylbenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Naphthalene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
o-Xylene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
sec-Butylbenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Styrene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
tert-Butylbenzene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Tetrachloroethene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Toluene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
trans-1,2-Dichloroethene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Trichloroethene	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Trichlorofluoromethane	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Vinyl chloride	ND	5.8	µg/Kg	1	11/7/2013 04:10 PM
Surr: 1,2-Dichloroethane-d4	107	63-139	%REC	1	11/7/2013 04:10 PM
Surr: 4-Bromofluorobenzene	71.7	75-124	%REC	1	11/7/2013 04:10 PM
Surr: Dibromofluoromethane	104	70-133	%REC	1	11/7/2013 04:10 PM
Surr: Toluene-d8	95.6	80-123	%REC	1	11/7/2013 04:10 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 15-Nov-13

CLIENT: Mc.Ginley and Associates
Lab Order: N011401
Project: PPG INDUSTRIES, LVBEC007
Lab ID: N011401-012

Client Sample ID: SB1-S-10'-2
Collection Date: 11/6/2013 11:05:00 AM
Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4\_131111A QC Batch: E13VS118 PrepDate: 11/7/2013 Analyst: PN
GRO ND 0.94 mg/Kg 1 11/11/2013 12:34 PM
Surr: Chlorobenzene - d5 102 51-136 %REC 1 11/11/2013 12:34 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology Laboratories, Inc.

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**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-15'-1
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:10:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-013		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,1,1-Trichloroethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,1,2,2-Tetrachloroethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,1,2-Trichloroethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,1-Dichloroethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,1-Dichloroethene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,1-Dichloropropene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,2,3-Trichlorobenzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,2,3-Trichloropropane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,2,4-Trichlorobenzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,2,4-Trimethylbenzene	20000	4500	µg/Kg	1000	11/8/2013 01:41 PM		
1,2-Dibromo-3-chloropropane	ND	1800	µg/Kg	200	11/8/2013 01:20 PM		
1,2-Dibromoethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,2-Dichlorobenzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,2-Dichloroethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,2-Dichloropropane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,3,5-Trimethylbenzene	48000	4500	µg/Kg	1000	11/8/2013 01:41 PM		
1,3-Dichlorobenzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,3-Dichloropropane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
1,4-Dichlorobenzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
2,2-Dichloropropane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
2-Chlorotoluene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
4-Chlorotoluene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
4-Isopropyltoluene	1300	890	µg/Kg	200	11/8/2013 01:20 PM		
Benzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Bromobenzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Bromodichloromethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Bromoform	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Bromomethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Carbon tetrachloride	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Chlorobenzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Chloroethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Chloroform	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Chloromethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
cis-1,2-Dichloroethene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
cis-1,3-Dichloropropene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-15 <sup>1</sup> -1
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:10:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-013		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Dibromomethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Dichlorodifluoromethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Ethylbenzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Hexachlorobutadiene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Isopropylbenzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
m,p-Xylene	3200	1800	µg/Kg	200	11/8/2013 01:20 PM		
Methylene chloride	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
MTBE	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
n-Butylbenzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
n-Propylbenzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Naphthalene	28000	4500	µg/Kg	1000	11/8/2013 01:41 PM		
o-Xylene	57000	4500	µg/Kg	1000	11/8/2013 01:41 PM		
sec-Butylbenzene	1400	890	µg/Kg	200	11/8/2013 01:20 PM		
Styrene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
tert-Butylbenzene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Tetrachloroethene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Toluene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
trans-1,2-Dichloroethene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Trichloroethene	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Trichlorofluoromethane	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Vinyl chloride	ND	890	µg/Kg	200	11/8/2013 01:20 PM		
Surr: 1,2-Dichloroethane-d4	95.7	63-139	%REC	200	11/8/2013 01:20 PM		
Surr: 1,2-Dichloroethane-d4	100	63-139	%REC	1000	11/8/2013 01:41 PM		
Surr: 4-Bromofluorobenzene	97.9	75-124	%REC	1000	11/8/2013 01:41 PM		
Surr: 4-Bromofluorobenzene	96.2	75-124	%REC	200	11/8/2013 01:20 PM		
Surr: Dibromofluoromethane	97.4	70-133	%REC	1000	11/8/2013 01:41 PM		
Surr: Dibromofluoromethane	95.5	70-133	%REC	200	11/8/2013 01:20 PM		
Surr: Toluene-d8	104	80-123	%REC	200	11/8/2013 01:20 PM		
Surr: Toluene-d8	105	80-123	%REC	1000	11/8/2013 01:41 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-15'-2
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:10:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-014		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GASOLINE RANGE ORGANICS BY GC/FID</b>						
				<b>EPA 8015B</b>		
RunID: GC4_131111A	QC Batch: E13VS118			PrepDate: 11/7/2013		Analyst: <b>PN</b>
GRO	1500	98		mg/Kg	100	11/11/2013 03:39 PM
Surr: Chlorobenzene - d5	91.0	51-136		%REC	100	11/11/2013 03:39 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-15'-3
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:15:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-015		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	43	10		mg/Kg	1	11/11/2013 04:04 PM
ORO	ND	10		mg/Kg	1	11/11/2013 04:04 PM
Surr: p-Terphenyl	110	52-175		%REC	1	11/11/2013 04:04 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-15'-4
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:15:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-016		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471</b>			<b>EPA 7471A</b>			
RunID: AA1_131111A	QC Batch: 44324			PrepDate: 11/8/2013		Analyst: LCC
Mercury	ND	0.10		mg/Kg	1	11/11/2013
<b>ICP METALS</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: ICP2_131113A	QC Batch: 44323			PrepDate: 11/8/2013		Analyst: JAA
Arsenic	3.7	1.0		mg/Kg	1	11/13/2013 10:06 AM
Barium	36	1.0		mg/Kg	1	11/13/2013 10:06 AM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 10:06 AM
Chromium	ND	1.0		mg/Kg	1	11/13/2013 10:06 AM
Lead	8.5	1.0		mg/Kg	1	11/13/2013 10:06 AM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 10:06 AM
Silver	ND	1.0		mg/Kg	1	11/13/2013 10:06 AM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-20'-1
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:25:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-017		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,1,1-Trichloroethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,1,2,2-Tetrachloroethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,1,2-Trichloroethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,1-Dichloroethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,1-Dichloroethene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,1-Dichloropropene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,2,3-Trichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,2,3-Trichloropropane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,2,4-Trichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,2,4-Trimethylbenzene	100000	23000	µg/Kg	5000	11/8/2013 02:03 PM		
1,2-Dibromo-3-chloropropane	ND	4600	µg/Kg	500	11/8/2013 12:35 PM		
1,2-Dibromoethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,2-Dichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,2-Dichloroethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,2-Dichloropropane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,3,5-Trimethylbenzene	30000	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,3-Dichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,3-Dichloropropane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
1,4-Dichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
2,2-Dichloropropane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
2-Chlorotoluene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
4-Chlorotoluene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
4-Isopropyltoluene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Benzene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Bromobenzene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Bromodichloromethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Bromoform	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Bromomethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Carbon tetrachloride	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Chlorobenzene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Chloroethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Chloroform	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Chloromethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
cis-1,2-Dichloroethene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
cis-1,3-Dichloropropene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**Advanced Technology  
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-20'-1
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:25:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-017		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Dibromomethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Dichlorodifluoromethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Ethylbenzene	15000	2300	µg/Kg	500	11/8/2013 12:35 PM		
Hexachlorobutadiene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Isopropylbenzene	2600	2300	µg/Kg	500	11/8/2013 12:35 PM		
m,p-Xylene	160000	46000	µg/Kg	5000	11/8/2013 02:03 PM		
Methylene chloride	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
MTBE	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
n-Butylbenzene	4700	2300	µg/Kg	500	11/8/2013 12:35 PM		
n-Propylbenzene	8300	2300	µg/Kg	500	11/8/2013 12:35 PM		
Naphthalene	16000	2300	µg/Kg	500	11/8/2013 12:35 PM		
o-Xylene	69000	23000	µg/Kg	5000	11/8/2013 02:03 PM		
sec-Butylbenzene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Styrene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
tert-Butylbenzene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Tetrachloroethene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Toluene	15000	2300	µg/Kg	500	11/8/2013 12:35 PM		
trans-1,2-Dichloroethene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Trichloroethene	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Trichlorofluoromethane	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Vinyl chloride	ND	2300	µg/Kg	500	11/8/2013 12:35 PM		
Surr: 1,2-Dichloroethane-d4	94.3	63-139	%REC	500	11/8/2013 12:35 PM		
Surr: 1,2-Dichloroethane-d4	99.3	63-139	%REC	5000	11/8/2013 02:03 PM		
Surr: 4-Bromofluorobenzene	96.8	75-124	%REC	5000	11/8/2013 02:03 PM		
Surr: 4-Bromofluorobenzene	96.9	75-124	%REC	500	11/8/2013 12:35 PM		
Surr: Dibromofluoromethane	94.3	70-133	%REC	5000	11/8/2013 02:03 PM		
Surr: Dibromofluoromethane	92.7	70-133	%REC	500	11/8/2013 12:35 PM		
Surr: Toluene-d8	108	80-123	%REC	500	11/8/2013 12:35 PM		
Surr: Toluene-d8	107	80-123	%REC	5000	11/8/2013 02:03 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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ANALYTICAL RESULTS

Print Date: 15-Nov-13

CLIENT: Mc.Ginley and Associates
Lab Order: N011401
Project: PPG INDUSTRIES, LVBEC007
Lab ID: N011401-018

Client Sample ID: SB1-S-20'-2
Collection Date: 11/6/2013 11:30:00 AM
Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

Table with 7 columns: RunID, QC Batch, PQL, Qual, Units, DF, Date Analyzed. Includes rows for GRO and Surr: Chlorobenzene - d5.

- Qualifiers: B Analyte detected in the associated Method Blank, H Holding times for preparation or analysis exceeded, S Spike/Surrogate outside of limits due to matrix interference, DO Surrogate Diluted Out, E Value above quantitation range, ND Not Detected at the Reporting Limit, Results are wet unless otherwise specified



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-201-3
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:35:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-019		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	600	10		mg/Kg	1	11/11/2013 04:29 PM
ORO	13	10		mg/Kg	1	11/11/2013 04:29 PM
Surr: p-Terphenyl	118	52-175		%REC	1	11/11/2013 04:29 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-20'-4
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:35:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-020		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471</b>			<b>EPA 7471A</b>			
RunID: AA1_131111A	QC Batch: 44324			PrepDate: 11/8/2013		Analyst: LCC
Mercury	ND	0.10		mg/Kg	1	11/11/2013
<b>ICP METALS</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: ICP2_131113A	QC Batch: 44323			PrepDate: 11/8/2013		Analyst: JAA
Arsenic	2.1	1.0		mg/Kg	1	11/13/2013 10:12 AM
Barium	58	1.0		mg/Kg	1	11/13/2013 10:12 AM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 10:12 AM
Chromium	1.1	1.0		mg/Kg	1	11/13/2013 10:12 AM
Lead	4.7	1.0		mg/Kg	1	11/13/2013 10:12 AM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 10:12 AM
Silver	ND	1.0		mg/Kg	1	11/13/2013 10:12 AM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-25'-1
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:45:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-021		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,1,1-Trichloroethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,1,2,2-Tetrachloroethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,1,2-Trichloroethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,1-Dichloroethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,1-Dichloroethene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,1-Dichloropropene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,2,3-Trichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,2,3-Trichloropropane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,2,4-Trichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,2,4-Trimethylbenzene	130000	23000	µg/Kg	5000	11/8/2013 03:51 PM		
1,2-Dibromo-3-chloropropane	ND	4600	µg/Kg	500	11/8/2013 02:25 PM		
1,2-Dibromoethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,2-Dichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,2-Dichloroethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,2-Dichloropropane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,3,5-Trimethylbenzene	37000	23000	µg/Kg	5000	11/8/2013 03:51 PM		
1,3-Dichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,3-Dichloropropane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
1,4-Dichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
2,2-Dichloropropane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
2-Chlorotoluene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
4-Chlorotoluene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
4-Isopropyltoluene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Benzene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Bromobenzene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Bromodichloromethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Bromoform	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Bromomethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Carbon tetrachloride	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Chlorobenzene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Chloroethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Chloroform	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Chloromethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
cis-1,2-Dichloroethene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
cis-1,3-Dichloropropene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-25'-1
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:45:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-021		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Dibromomethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Dichlorodifluoromethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Ethylbenzene	44000	23000	µg/Kg	5000	11/8/2013 03:51 PM		
Hexachlorobutadiene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Isopropylbenzene	5200	2300	µg/Kg	500	11/8/2013 02:25 PM		
m,p-Xylene	210000	46000	µg/Kg	5000	11/8/2013 03:51 PM		
Methylene chloride	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
MTBE	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
n-Butylbenzene	6100	2300	µg/Kg	500	11/8/2013 02:25 PM		
n-Propylbenzene	21000	2300	µg/Kg	500	11/8/2013 02:25 PM		
Naphthalene	17000	2300	µg/Kg	500	11/8/2013 02:25 PM		
o-Xylene	76000	23000	µg/Kg	5000	11/8/2013 03:51 PM		
sec-Butylbenzene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Styrene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
tert-Butylbenzene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Tetrachloroethene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Toluene	67000	23000	µg/Kg	5000	11/8/2013 03:51 PM		
trans-1,2-Dichloroethene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Trichloroethene	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Trichlorofluoromethane	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Vinyl chloride	ND	2300	µg/Kg	500	11/8/2013 02:25 PM		
Surr: 1,2-Dichloroethane-d4	91.7	63-139	%REC	5000	11/8/2013 03:51 PM		
Surr: 1,2-Dichloroethane-d4	87.8	63-139	%REC	500	11/8/2013 02:25 PM		
Surr: 4-Bromofluorobenzene	103	75-124	%REC	500	11/8/2013 02:25 PM		
Surr: 4-Bromofluorobenzene	89.8	75-124	%REC	5000	11/8/2013 03:51 PM		
Surr: Dibromofluoromethane	89.0	70-133	%REC	5000	11/8/2013 03:51 PM		
Surr: Dibromofluoromethane	85.2	70-133	%REC	500	11/8/2013 02:25 PM		
Surr: Toluene-d8	100	80-123	%REC	500	11/8/2013 02:25 PM		
Surr: Toluene-d8	97.4	80-123	%REC	5000	11/8/2013 03:51 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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ANALYTICAL RESULTS

Print Date: 15-Nov-13

CLIENT: Mc.Ginley and Associates
Lab Order: N011401
Project: PPG INDUSTRIES, LVBEC007
Lab ID: N011401-022

Client Sample ID: SB1-S-251-2
Collection Date: 11/6/2013 11:50:00 AM
Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

Table with 7 columns: RunID, QC Batch, PQL, Qual, Units, DF, Date Analyzed. Includes rows for GRO and Surr: Chlorobenzene - d5.

- Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-251-3
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:55:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-023		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	1100	9.9		mg/Kg	1	11/11/2013 04:55 PM
ORO	22	9.9		mg/Kg	1	11/11/2013 04:55 PM
Surr: p-Terphenyl	106	52-175		%REC	1	11/11/2013 04:55 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-25'-4
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 11:55:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-024		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471</b>			<b>EPA 7471A</b>			
RunID: AA1_131111A	QC Batch: 44324			PrepDate: 11/8/2013		Analyst: LCC
Mercury	ND	0.099		mg/Kg	1	11/11/2013
<b>ICP METALS</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: ICP2_131113A	QC Batch: 44323			PrepDate: 11/8/2013		Analyst: JAA
Arsenic	8.2	1.0		mg/Kg	1	11/13/2013 10:20 AM
Barium	34	1.0		mg/Kg	1	11/13/2013 10:20 AM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 10:20 AM
Chromium	2.0	1.0		mg/Kg	1	11/13/2013 10:20 AM
Lead	9.7	1.0		mg/Kg	1	11/13/2013 10:20 AM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 10:20 AM
Silver	ND	1.0		mg/Kg	1	11/13/2013 10:20 AM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-30'-1
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 12:15:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-025		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,1,1-Trichloroethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,1,2,2-Tetrachloroethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,1,2-Trichloroethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,1-Dichloroethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,1-Dichloroethene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,1-Dichloropropene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,2,3-Trichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,2,3-Trichloropropane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,2,4-Trichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,2,4-Trimethylbenzene	110000	23000	µg/Kg	5000	11/8/2013 04:13 PM		
1,2-Dibromo-3-chloropropane	ND	4700	µg/Kg	500	11/8/2013 03:08 PM		
1,2-Dibromoethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,2-Dichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,2-Dichloroethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,2-Dichloropropane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,3,5-Trimethylbenzene	34000	23000	µg/Kg	5000	11/8/2013 04:13 PM		
1,3-Dichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,3-Dichloropropane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
1,4-Dichlorobenzene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
2,2-Dichloropropane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
2-Chlorotoluene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
4-Chlorotoluene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
4-Isopropyltoluene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Benzene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Bromobenzene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Bromodichloromethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Bromoform	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Bromomethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Carbon tetrachloride	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Chlorobenzene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Chloroethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Chloroform	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Chloromethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
cis-1,2-Dichloroethene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
cis-1,3-Dichloropropene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-30'-1
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 12:15:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-025		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Dibromomethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Dichlorodifluoromethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Ethylbenzene	26000	2300	µg/Kg	500	11/8/2013 03:08 PM		
Hexachlorobutadiene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Isopropylbenzene	3500	2300	µg/Kg	500	11/8/2013 03:08 PM		
m,p-Xylene	130000	47000	µg/Kg	5000	11/8/2013 04:13 PM		
Methylene chloride	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
MTBE	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
n-Butylbenzene	6000	2300	µg/Kg	500	11/8/2013 03:08 PM		
n-Propylbenzene	16000	2300	µg/Kg	500	11/8/2013 03:08 PM		
Naphthalene	20000	2300	µg/Kg	500	11/8/2013 03:08 PM		
o-Xylene	54000	23000	µg/Kg	5000	11/8/2013 04:13 PM		
sec-Butylbenzene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Styrene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
tert-Butylbenzene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Tetrachloroethene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Toluene	26000	2300	µg/Kg	500	11/8/2013 03:08 PM		
trans-1,2-Dichloroethene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Trichloroethene	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Trichlorofluoromethane	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Vinyl chloride	ND	2300	µg/Kg	500	11/8/2013 03:08 PM		
Surr: 1,2-Dichloroethane-d4	101	63-139	%REC	500	11/8/2013 03:08 PM		
Surr: 1,2-Dichloroethane-d4	96.7	63-139	%REC	5000	11/8/2013 04:13 PM		
Surr: 4-Bromofluorobenzene	93.4	75-124	%REC	5000	11/8/2013 04:13 PM		
Surr: 4-Bromofluorobenzene	99.5	75-124	%REC	500	11/8/2013 03:08 PM		
Surr: Dibromofluoromethane	91.1	70-133	%REC	5000	11/8/2013 04:13 PM		
Surr: Dibromofluoromethane	98.0	70-133	%REC	500	11/8/2013 03:08 PM		
Surr: Toluene-d8	108	80-123	%REC	500	11/8/2013 03:08 PM		
Surr: Toluene-d8	101	80-123	%REC	5000	11/8/2013 04:13 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-30'-2
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 12:20:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-026		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B**

RunID: GC4_131111A	QC Batch: E13VS118	PrepDate: 11/7/2013	Analyst: <b>PN</b>		
GRO	1400	98	mg/Kg	100	11/11/2013 04:08 PM
Surr: Chlorobenzene - d5	96.1	51-136	%REC	100	11/11/2013 04:08 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB1-S-30'-3
<b>Lab Order:</b>	N011401	<b>Collection Date:</b>	11/6/2013 12:25:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011401-027		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	120	10		mg/Kg	1	11/11/2013 05:20 PM
ORO	12	10		mg/Kg	1	11/11/2013 05:20 PM
Surr: p-Terphenyl	108	52-175		%REC	1	11/11/2013 05:20 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011401-028

**Client Sample ID:** SB1-S-30'-4  
**Collection Date:** 11/6/2013 12:25:00 PM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**MERCURY BY COLD VAPOR TECHNIQUE**

**EPA 7471**

**EPA 7471A**

RunID: AA1_131111A	QC Batch: 44324				PrepDate: 11/8/2013	Analyst: LCC
Mercury	ND	0.099		mg/Kg	1	11/11/2013

**ICP METALS**

**EPA 3050B**

**EPA 6010B**

RunID: ICP2_131113A	QC Batch: 44323				PrepDate: 11/8/2013	Analyst: JAA
Arsenic	4.8	1.0		mg/Kg	1	11/13/2013 10:27 AM
Barium	38	1.0		mg/Kg	1	11/13/2013 10:27 AM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 10:27 AM
Chromium	2.9	1.0		mg/Kg	1	11/13/2013 10:27 AM
Lead	9.1	1.0		mg/Kg	1	11/13/2013 10:27 AM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 10:27 AM
Silver	ND	1.0		mg/Kg	1	11/13/2013 10:27 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 6010\_S**

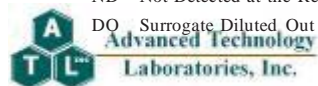
Sample ID: <b>MB-44323</b>	SampType: <b>MBLK</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>PBS</b>	Batch ID: <b>44323</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684154</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									
Barium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Lead	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									

Sample ID: <b>LCS-44323</b>	SampType: <b>LCS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>44323</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684155</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	23.499	1.0	25.00	0	94.0	80	120				
Barium	23.936	1.0	25.00	0	95.7	80	120				
Cadmium	23.413	1.0	25.00	0	93.7	80	120				
Chromium	23.802	1.0	25.00	0	95.2	80	120				
Lead	24.001	1.0	25.00	0	96.0	80	120				
Selenium	21.591	1.0	25.00	0	86.4	80	120				
Silver	21.119	1.0	25.00	0	84.5	80	120				

Sample ID: <b>N011403-001A-MS</b>	SampType: <b>MS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44323</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684168</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	26.244	1.0	24.90	2.212	96.5	75	125				
Barium	106.973	1.0	24.90	80.95	104	75	125				
Cadmium	21.853	1.0	24.90	0	87.8	75	125				
Chromium	33.403	1.0	24.90	10.54	91.8	75	125				

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010\_S**

Sample ID: <b>N011403-001A-MS</b>	SampType: <b>MS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44323</b>	TestNo: <b>EPA 6010B</b>	<b>EPA 3050B</b>	Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684168</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	26.115	1.0	24.90	4.288	87.7	75	125				
Selenium	21.183	1.0	24.90	0	85.1	75	125				
Silver	18.647	1.0	24.90	0	74.9	75	125				S

Sample ID: <b>N011403-001A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44323</b>	TestNo: <b>EPA 6010B</b>	<b>EPA 3050B</b>	Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684169</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	25.961	1.0	24.99	2.212	95.0	75	125	26.24	1.08	20	
Barium	105.648	1.0	24.99	80.95	98.8	75	125	107.0	1.25	20	
Cadmium	21.783	1.0	24.99	0	87.2	75	125	21.85	0.323	20	
Chromium	33.013	1.0	24.99	10.54	89.9	75	125	33.40	1.18	20	
Lead	25.674	1.0	24.99	4.288	85.6	75	125	26.11	1.70	20	
Selenium	21.376	1.0	24.99	0	85.5	75	125	21.18	0.907	20	
Silver	18.610	1.0	24.99	0	74.5	75	125	18.65	0.199	20	S

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 7471\_S**

Sample ID: <b>LCS-44324</b>	SampType: <b>LCS</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91117</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>44324</b>	TestNo: <b>EPA 7471A</b>	<b>EPA 7471</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1680678</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.449	0.10	0.4167	0	108	80	120				
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Sample ID: <b>MB-44324</b>	SampType: <b>MBLK</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91117</b>						
Client ID: <b>PBS</b>	Batch ID: <b>44324</b>	TestNo: <b>EPA 7471A</b>	<b>EPA 7471</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1680679</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	ND	0.10									
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Sample ID: <b>N011403-002A-MS</b>	SampType: <b>MS</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91117</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44324</b>	TestNo: <b>EPA 7471A</b>	<b>EPA 7471</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1680689</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

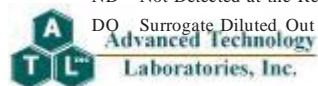
Mercury	0.426	0.099	0.4119	0	103	75	125				
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Sample ID: <b>N011403-002A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91117</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44324</b>	TestNo: <b>EPA 7471A</b>	<b>EPA 7471</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1680690</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.434	0.099	0.4105	0	106	75	125	0.4257	1.86	20	
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**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_DM H**

Sample ID: <b>LCS-44345</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_DM H</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/11/2013</b>	RunNo: <b>91126</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>44345</b>	TestNo: <b>EPA 8015B EPA 3550B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681312</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	899.809	10	1000	0	90.0	65	119				
Surr: p-Terphenyl	81.987		80.00		102	52	175				

Sample ID: <b>MB-44345</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_DM H</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/11/2013</b>	RunNo: <b>91126</b>						
Client ID: <b>PBS</b>	Batch ID: <b>44345</b>	TestNo: <b>EPA 8015B EPA 3550B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681313</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	7.956	10									
ORO	4.826	10									
Surr: p-Terphenyl	72.516		80.00		90.6	52	175				

Sample ID: <b>N011401-003A-MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_S_DM H</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/11/2013</b>	RunNo: <b>91126</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44345</b>	TestNo: <b>EPA 8015B EPA 3550B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681335</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	518.121	10	1010	25.98	48.7	32	171				
Surr: p-Terphenyl	66.584		80.81		82.4	52	175				

Sample ID: <b>N011401-003A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_S_DM H</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/11/2013</b>	RunNo: <b>91126</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44345</b>	TestNo: <b>EPA 8015B EPA 3550B</b>		Analysis Date: <b>11/12/2013</b>	SeqNo: <b>1681336</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	806.239	10	999.0	25.98	78.1	32	171	518.1	43.5	20	R
Surr: p-Terphenyl	70.422		79.92		88.1	52	175		0		

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**Advanced Technology  
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015GAS\_5035U**

Sample ID: <b>E131108LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91089</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>E13VS117</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1683029</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.234	1.0	5.000	0	105	77	122				
Surr: Chlorobenzene - d5	92.457		100.0		92.5	51	136				

Sample ID: <b>E131108MB1</b>	SampType: <b>MBLK</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91089</b>						
Client ID: <b>PBS</b>	Batch ID: <b>E13VS117</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1683030</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.055	1.0									
Surr: Chlorobenzene - d5	90.634		100.0		90.6	51	136				

Sample ID: <b>N011364-078AMS</b>	SampType: <b>MS</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91089</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E13VS117</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1683032</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.273	1.0	5.000	0.03500	105	41	132				
Surr: Chlorobenzene - d5	100.569		100.0		101	51	136				

Sample ID: <b>N011364-078AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91089</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E13VS117</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1683033</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.309	1.0	5.000	0.03500	105	41	132	5.273	0.680	20	
Surr: Chlorobenzene - d5	96.753		100.0		96.8	51	136		0		

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          |  |  |
| Calculations are based on raw values              |  |  |



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**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015GAS\_5035U**

Sample ID: <b>E131111LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91132</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>E13VS118</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681521</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	6.022	1.0	5.000	0	120	77	122				
Surr: Chlorobenzene - d5	107.692		100.0		108	51	136				

Sample ID: <b>E131111MB1</b>	SampType: <b>MBLK</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91132</b>						
Client ID: <b>PBS</b>	Batch ID: <b>E13VS118</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681522</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.059	1.0									
Surr: Chlorobenzene - d5	101.839		100.0		102	51	136				

Sample ID: <b>E131111LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91132</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>E13VS118</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681523</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.854	1.0	5.000	0	117	77	122	6.022	2.83	20	
Surr: Chlorobenzene - d5	107.879		100.0		108	51	136		0		

Sample ID: <b>N011406-001BMS</b>	SampType: <b>MS</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91132</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E13VS118</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681540</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	38804.000	2000	10000	27690	111	41	132				
Surr: Chlorobenzene - d5	193184.000		200000		96.6	51	136				

Sample ID: <b>N011406-001BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91132</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E13VS118</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681541</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	36968.000	2000	10000	27690	92.8	41	132	38800	4.85	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          |  |  |
| Calculations are based on raw values              |  |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015GAS\_5035U**

Sample ID: <b>N011406-001BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015GAS_503</b> Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91132</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E13VS118</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681541</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	194574.000		200000		97.3	51	136			0	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

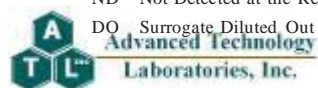
Sample ID: <b>Q131107LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91119</b>
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS023</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/7/2013</b>	SeqNo: <b>1680896</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	38.650	5.0	40.00	0	96.6	80	123				
1,1,1-Trichloroethane	40.570	5.0	40.00	0	101	71	127				
1,1,2,2-Tetrachloroethane	41.330	5.0	40.00	0	103	80	120				
1,1,2-Trichloroethane	41.730	5.0	40.00	0	104	80	120				
1,1-Dichloroethane	41.550	5.0	40.00	0	104	80	120				
1,1-Dichloroethene	38.990	5.0	40.00	0	97.5	80	121				
1,1-Dichloropropene	39.620	5.0	40.00	0	99.0	74	131				
1,2,3-Trichlorobenzene	36.850	5.0	40.00	0	92.1	64	137				
1,2,3-Trichloropropane	40.480	5.0	40.00	0	101	75	120				
1,2,4-Trichlorobenzene	37.810	5.0	40.00	0	94.5	75	128				
1,2,4-Trimethylbenzene	40.820	5.0	40.00	0	102	73	128				
1,2-Dibromo-3-chloropropane	39.190	10	40.00	0	98.0	53	143				
1,2-Dibromoethane	38.430	5.0	40.00	0	96.1	74	124				
1,2-Dichlorobenzene	39.150	5.0	40.00	0	97.9	80	120				
1,2-Dichloroethane	40.960	5.0	40.00	0	102	70	139				
1,2-Dichloropropane	40.700	5.0	40.00	0	102	80	120				
1,3,5-Trimethylbenzene	41.310	5.0	40.00	0	103	76	126				
1,3-Dichlorobenzene	39.530	5.0	40.00	0	98.8	80	120				
1,3-Dichloropropane	40.680	5.0	40.00	0	102	80	120				
1,4-Dichlorobenzene	39.170	5.0	40.00	0	97.9	80	120				
2,2-Dichloropropane	40.930	5.0	40.00	0	102	72	135				
2-Chlorotoluene	40.390	5.0	40.00	0	101	79	120				
4-Chlorotoluene	39.910	5.0	40.00	0	99.8	80	120				
4-Isopropyltoluene	40.080	5.0	40.00	0	100	76	126				
Benzene	40.590	5.0	40.00	0	101	80	120				
Bromobenzene	39.460	5.0	40.00	0	98.6	80	120				
Bromodichloromethane	41.150	5.0	40.00	0	103	79	131				
Bromoform	39.280	5.0	40.00	0	98.2	80	120				
Bromomethane	40.230	5.0	40.00	0	101	43	179				
Carbon tetrachloride	40.150	5.0	40.00	0	100	80	125				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131107LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91119</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS023</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/7/2013</b>	SeqNo: <b>1680896</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	37.860	5.0	40.00	0	94.6	80	120				
Chloroethane	39.580	5.0	40.00	0	99.0	32	181				
Chloroform	39.400	5.0	40.00	0	98.5	77	129				
Chloromethane	40.330	5.0	40.00	0	101	80	120				
cis-1,2-Dichloroethene	41.130	5.0	40.00	0	103	80	120				
cis-1,3-Dichloropropene	41.230	5.0	40.00	0	103	80	120				
Dibromochloromethane	40.430	5.0	40.00	0	101	80	122				
Dibromomethane	41.370	5.0	40.00	0	103	80	120				
Dichlorodifluoromethane	40.490	5.0	40.00	0	101	64	135				
Ethylbenzene	39.170	5.0	40.00	0	97.9	80	120				
Hexachlorobutadiene	36.270	5.0	40.00	0	90.7	69	132				
Isopropylbenzene	40.970	5.0	40.00	0	102	79	121				
m,p-Xylene	77.740	10	80.00	0	97.2	80	121				
Methylene chloride	38.350	5.0	40.00	0	95.9	74	123				
MTBE	38.970	5.0	40.00	0	97.4	56	140				
n-Butylbenzene	40.660	5.0	40.00	0	102	72	131				
n-Propylbenzene	41.440	5.0	40.00	0	104	79	122				
Naphthalene	37.590	5.0	40.00	0	94.0	69	126				
o-Xylene	38.730	5.0	40.00	0	96.8	80	120				
sec-Butylbenzene	40.690	5.0	40.00	0	102	74	127				
Styrene	40.170	5.0	40.00	0	100	80	120				
tert-Butylbenzene	40.120	5.0	40.00	0	100	75	125				
Tetrachloroethene	38.680	5.0	40.00	0	96.7	80	120				
Toluene	39.470	5.0	40.00	0	98.7	80	120				
trans-1,2-Dichloroethene	42.280	5.0	40.00	0	106	80	125				
Trichloroethene	39.050	5.0	40.00	0	97.6	80	120				
Trichlorofluoromethane	39.560	5.0	40.00	0	98.9	67	152				
Vinyl chloride	41.680	5.0	40.00	0	104	69	135				
Surr: 1,2-Dichloroethane-d4	49.670		50.00		99.3	63	139				
Surr: 4-Bromofluorobenzene	44.370		50.00		88.7	75	124				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131107LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91119</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS023</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/7/2013</b>	SeqNo: <b>1680896</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	49.010		50.00		98.0	70	133				
Surr: Toluene-d8	47.170		50.00		94.3	80	123				

Sample ID: <b>Q131107MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91119</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS023</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/7/2013</b>	SeqNo: <b>1680897</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131107MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91119</b>
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS023</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/7/2013</b>	SeqNo: <b>1680897</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
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**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

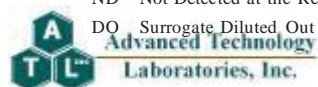
**TestCode: 8260ENC5035**

Sample ID: <b>Q131107MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91119</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS023</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/7/2013</b>	SeqNo: <b>1680897</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	46.240		50.00		92.5	63	139				
Surr: 4-Bromofluorobenzene	41.430		50.00		82.9	75	124				
Surr: Dibromofluoromethane	47.470		50.00		94.9	70	133				
Surr: Toluene-d8	48.810		50.00		97.6	80	123				

Sample ID: <b>N011386-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91119</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS023</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/7/2013</b>	SeqNo: <b>1680901</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	40.240	5.0	40.00	0	101	58	149				
1,1,1-Trichloroethane	42.440	5.0	40.00	0	106	67	126				
1,1,2,2-Tetrachloroethane	42.660	5.0	40.00	0	107	18	193				
1,1,2-Trichloroethane	47.880	5.0	40.00	0	120	70	136				
1,1-Dichloroethane	44.450	5.0	40.00	0	111	65	134				
1,1-Dichloroethene	40.660	5.0	40.00	0	102	61	135				
1,1-Dichloropropene	41.360	5.0	40.00	0	103	68	125				
1,2,3-Trichlorobenzene	37.940	5.0	40.00	0	94.8	40	134				
1,2,3-Trichloropropane	42.160	5.0	40.00	0	105	38	167				
1,2,4-Trichlorobenzene	38.410	5.0	40.00	0	96.0	40	132				
1,2,4-Trimethylbenzene	40.100	5.0	40.00	0	100	58	123				
1,2-Dibromo-3-chloropropane	40.910	10	40.00	0	102	30	181				
1,2-Dibromoethane	44.610	5.0	40.00	0	112	67	139				
1,2-Dichlorobenzene	39.440	5.0	40.00	0	98.6	65	122				
1,2-Dichloroethane	44.880	5.0	40.00	0	112	63	149				
1,2-Dichloropropane	44.320	5.0	40.00	0	111	69	127				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>N011386-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91119</b>
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS023</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/7/2013</b>	SeqNo: <b>1680901</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	39.640	5.0	40.00	0	99.1	58	122				
1,3-Dichlorobenzene	39.350	5.0	40.00	0	98.4	64	120				
1,3-Dichloropropane	42.720	5.0	40.00	0	107	64	141				
1,4-Dichlorobenzene	39.040	5.0	40.00	0	97.6	62	122				
2,2-Dichloropropane	43.500	5.0	40.00	0	109	62	138				
2-Chlorotoluene	39.610	5.0	40.00	0	99.0	59	124				
4-Chlorotoluene	39.640	5.0	40.00	0	99.1	60	123				
4-Isopropyltoluene	38.890	5.0	40.00	0	97.2	50	124				
Benzene	42.430	5.0	40.00	0	106	72	122				
Bromobenzene	39.610	5.0	40.00	0	99.0	64	129				
Bromodichloromethane	43.430	5.0	40.00	0	109	67	142				
Bromoform	43.100	5.0	40.00	0	108	35	192				
Bromomethane	42.040	5.0	40.00	0	105	62	150				
Carbon tetrachloride	40.980	5.0	40.00	0	102	56	142				
Chlorobenzene	39.040	5.0	40.00	0	97.6	71	120				
Chloroethane	41.520	5.0	40.00	0	104	55	149				
Chloroform	44.330	5.0	40.00	0	111	70	135				
Chloromethane	41.530	5.0	40.00	0	104	37	151				
cis-1,2-Dichloroethene	44.810	5.0	40.00	0	112	69	131				
cis-1,3-Dichloropropene	45.460	5.0	40.00	0	114	71	129				
Dibromochloromethane	43.140	5.0	40.00	0	108	53	161				
Dibromomethane	47.470	5.0	40.00	0	119	66	145				
Dichlorodifluoromethane	41.460	5.0	40.00	0	104	52	135				
Ethylbenzene	39.080	5.0	40.00	0	97.7	65	120				
Hexachlorobutadiene	34.520	5.0	40.00	0	86.3	22	135				
Isopropylbenzene	38.870	5.0	40.00	0	97.2	60	121				
m,p-Xylene	78.590	10	80.00	0	98.2	65	120				
Methylene chloride	43.700	5.0	40.00	1.960	104	55	138				
MTBE	45.140	5.0	40.00	0	113	64	149				
n-Butylbenzene	39.470	5.0	40.00	0	98.7	43	126				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

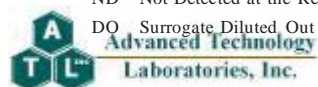
**TestCode: 8260ENC5035**

Sample ID: <b>N011386-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91119</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS023</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/7/2013</b>	SeqNo: <b>1680901</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	40.150	5.0	40.00	0	100	56	122				
Naphthalene	36.670	5.0	40.00	0	91.7	48	139				
o-Xylene	39.180	5.0	40.00	0	98.0	67	118				
sec-Butylbenzene	38.840	5.0	40.00	0	97.1	50	123				
Styrene	41.200	5.0	40.00	0	103	57	129				
tert-Butylbenzene	38.280	5.0	40.00	0	95.7	54	121				
Tetrachloroethene	38.030	5.0	40.00	0	95.1	35	149				
Toluene	41.250	5.0	40.00	0	103	68	120				
trans-1,2-Dichloroethene	42.490	5.0	40.00	0	106	62	139				
Trichloroethene	40.510	5.0	40.00	0	101	63	134				
Trichlorofluoromethane	41.170	5.0	40.00	0	103	34	179				
Vinyl chloride	42.090	5.0	40.00	0	105	57	136				
Surr: 1,2-Dichloroethane-d4	55.290		50.00		111	63	139				
Surr: 4-Bromofluorobenzene	45.550		50.00		91.1	75	124				
Surr: Dibromofluoromethane	53.330		50.00		107	70	133				
Surr: Toluene-d8	49.470		50.00		98.9	80	123				

Sample ID: <b>N011386-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91119</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS023</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/7/2013</b>	SeqNo: <b>1680902</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	39.270	5.0	40.00	0	98.2	58	149	40.24	2.44	20	
1,1,1-Trichloroethane	41.030	5.0	40.00	0	103	67	126	42.44	3.38	20	
1,1,2,2-Tetrachloroethane	42.330	5.0	40.00	0	106	18	193	42.66	0.777	20	
1,1,2-Trichloroethane	46.410	5.0	40.00	0	116	70	136	47.88	3.12	20	
1,1-Dichloroethane	42.060	5.0	40.00	0	105	65	134	44.45	5.53	20	
1,1-Dichloroethene	39.680	5.0	40.00	0	99.2	61	135	40.66	2.44	20	
1,1-Dichloropropene	40.290	5.0	40.00	0	101	68	125	41.36	2.62	20	
1,2,3-Trichlorobenzene	39.070	5.0	40.00	0	97.7	40	134	37.94	2.93	20	
1,2,3-Trichloropropane	42.960	5.0	40.00	0	107	38	167	42.16	1.88	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          |  |  |
| Calculations are based on raw values              |  |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

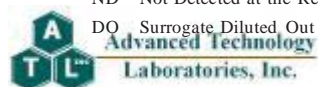
**TestCode: 8260ENC5035**

Sample ID: <b>N011386-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91119</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS023</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/7/2013</b>	SeqNo: <b>1680902</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	37.600	5.0	40.00	0	94.0	40	132	38.41	2.13	20	
1,2,4-Trimethylbenzene	39.100	5.0	40.00	0	97.8	58	123	40.10	2.53	20	
1,2-Dibromo-3-chloropropane	42.650	10	40.00	0	107	30	181	40.91	4.16	20	
1,2-Dibromoethane	44.310	5.0	40.00	0	111	67	139	44.61	0.675	20	
1,2-Dichlorobenzene	39.560	5.0	40.00	0	98.9	65	122	39.44	0.304	20	
1,2-Dichloroethane	44.310	5.0	40.00	0	111	63	149	44.88	1.28	20	
1,2-Dichloropropane	43.360	5.0	40.00	0	108	69	127	44.32	2.19	20	
1,3,5-Trimethylbenzene	38.930	5.0	40.00	0	97.3	58	122	39.64	1.81	20	
1,3-Dichlorobenzene	38.790	5.0	40.00	0	97.0	64	120	39.35	1.43	20	
1,3-Dichloropropane	42.380	5.0	40.00	0	106	64	141	42.72	0.799	20	
1,4-Dichlorobenzene	37.390	5.0	40.00	0	93.5	62	122	39.04	4.32	20	
2,2-Dichloropropane	41.560	5.0	40.00	0	104	62	138	43.50	4.56	20	
2-Chlorotoluene	38.480	5.0	40.00	0	96.2	59	124	39.61	2.89	20	
4-Chlorotoluene	38.410	5.0	40.00	0	96.0	60	123	39.64	3.15	20	
4-Isopropyltoluene	36.820	5.0	40.00	0	92.0	50	124	38.89	5.47	20	
Benzene	41.250	5.0	40.00	0	103	72	122	42.43	2.82	20	
Bromobenzene	38.790	5.0	40.00	0	97.0	64	129	39.61	2.09	20	
Bromodichloromethane	41.880	5.0	40.00	0	105	67	142	43.43	3.63	20	
Bromoform	42.000	5.0	40.00	0	105	35	192	43.10	2.59	20	
Bromomethane	41.080	5.0	40.00	0	103	62	150	42.04	2.31	20	
Carbon tetrachloride	40.000	5.0	40.00	0	100	56	142	40.98	2.42	20	
Chlorobenzene	37.350	5.0	40.00	0	93.4	71	120	39.04	4.42	20	
Chloroethane	40.880	5.0	40.00	0	102	55	149	41.52	1.55	20	
Chloroform	42.150	5.0	40.00	0	105	70	135	44.33	5.04	20	
Chloromethane	41.180	5.0	40.00	0	103	37	151	41.53	0.846	20	
cis-1,2-Dichloroethene	42.870	5.0	40.00	0	107	69	131	44.81	4.43	20	
cis-1,3-Dichloropropene	44.150	5.0	40.00	0	110	71	129	45.46	2.92	20	
Dibromochloromethane	42.150	5.0	40.00	0	105	53	161	43.14	2.32	20	
Dibromomethane	45.380	5.0	40.00	0	113	66	145	47.47	4.50	20	
Dichlorodifluoromethane	40.960	5.0	40.00	0	102	52	135	41.46	1.21	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>N011386-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91119</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS023</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/7/2013</b>	SeqNo: <b>1680902</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	36.700	5.0	40.00	0	91.8	65	120	39.08	6.28	20	
Hexachlorobutadiene	32.850	5.0	40.00	0	82.1	22	135	34.52	4.96	20	
Isopropylbenzene	37.410	5.0	40.00	0	93.5	60	121	38.87	3.83	20	
m,p-Xylene	76.570	10	80.00	0	95.7	65	120	78.59	2.60	20	
Methylene chloride	43.140	5.0	40.00	1.960	103	55	138	43.70	1.29	20	
MTBE	44.040	5.0	40.00	0	110	64	149	45.14	2.47	20	
n-Butylbenzene	37.750	5.0	40.00	0	94.4	43	126	39.47	4.45	20	
n-Propylbenzene	37.940	5.0	40.00	0	94.8	56	122	40.15	5.66	20	
Naphthalene	42.180	5.0	40.00	0	105	48	139	36.67	14.0	20	
o-Xylene	37.660	5.0	40.00	0	94.2	67	118	39.18	3.96	20	
sec-Butylbenzene	36.840	5.0	40.00	0	92.1	50	123	38.84	5.29	20	
Styrene	40.360	5.0	40.00	0	101	57	129	41.20	2.06	20	
tert-Butylbenzene	37.110	5.0	40.00	0	92.8	54	121	38.28	3.10	20	
Tetrachloroethene	36.050	5.0	40.00	0	90.1	35	149	38.03	5.35	20	
Toluene	39.660	5.0	40.00	0	99.2	68	120	41.25	3.93	20	
trans-1,2-Dichloroethene	41.300	5.0	40.00	0	103	62	139	42.49	2.84	20	
Trichloroethene	39.050	5.0	40.00	0	97.6	63	134	40.51	3.67	20	
Trichlorofluoromethane	39.630	5.0	40.00	0	99.1	34	179	41.17	3.81	20	
Vinyl chloride	42.040	5.0	40.00	0	105	57	136	42.09	0.119	20	
Surr: 1,2-Dichloroethane-d4	56.290		50.00		113	63	139		0		
Surr: 4-Bromofluorobenzene	45.630		50.00		91.3	75	124		0		
Surr: Dibromofluoromethane	54.520		50.00		109	70	133		0		
Surr: Toluene-d8	49.760		50.00		99.5	80	123		0		

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          |  |  |
| Calculations are based on raw values              |  |  |



**Advanced Technology  
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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

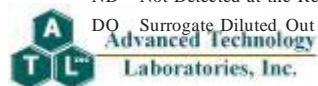
Sample ID: <b>Q131108LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681339</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	37.900	5.0	40.00	0	94.8	80	123				
1,1,1-Trichloroethane	38.610	5.0	40.00	0	96.5	71	127				
1,1,2,2-Tetrachloroethane	42.190	5.0	40.00	0	105	80	120				
1,1,2-Trichloroethane	40.690	5.0	40.00	0	102	80	120				
1,1-Dichloroethane	39.610	5.0	40.00	0	99.0	80	120				
1,1-Dichloroethene	38.050	5.0	40.00	0	95.1	80	121				
1,1-Dichloropropene	38.770	5.0	40.00	0	96.9	74	131				
1,2,3-Trichlorobenzene	38.930	5.0	40.00	0	97.3	64	137				
1,2,3-Trichloropropane	41.510	5.0	40.00	0	104	75	120				
1,2,4-Trichlorobenzene	39.010	5.0	40.00	0	97.5	75	128				
1,2,4-Trimethylbenzene	40.150	5.0	40.00	0	100	73	128				
1,2-Dibromo-3-chloropropane	42.680	10	40.00	0	107	53	143				
1,2-Dibromoethane	40.060	5.0	40.00	0	100	74	124				
1,2-Dichlorobenzene	38.660	5.0	40.00	0	96.7	80	120				
1,2-Dichloroethane	39.620	5.0	40.00	0	99.0	70	139				
1,2-Dichloropropane	39.810	5.0	40.00	0	99.5	80	120				
1,3,5-Trimethylbenzene	39.490	5.0	40.00	0	98.7	76	126				
1,3-Dichlorobenzene	38.740	5.0	40.00	0	96.9	80	120				
1,3-Dichloropropane	40.200	5.0	40.00	0	101	80	120				
1,4-Dichlorobenzene	37.660	5.0	40.00	0	94.2	80	120				
2,2-Dichloropropane	38.850	5.0	40.00	0	97.1	72	135				
2-Chlorotoluene	39.530	5.0	40.00	0	98.8	79	120				
4-Chlorotoluene	39.120	5.0	40.00	0	97.8	80	120				
4-Isopropyltoluene	39.420	5.0	40.00	0	98.6	76	126				
Benzene	38.870	5.0	40.00	0	97.2	80	120				
Bromobenzene	39.600	5.0	40.00	0	99.0	80	120				
Bromodichloromethane	39.210	5.0	40.00	0	98.0	79	131				
Bromoform	41.090	5.0	40.00	0	103	80	120				
Bromomethane	39.490	5.0	40.00	0	98.7	43	179				
Carbon tetrachloride	37.990	5.0	40.00	0	95.0	80	125				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131108LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681339</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	37.250	5.0	40.00	0	93.1	80	120				
Chloroethane	39.050	5.0	40.00	0	97.6	32	181				
Chloroform	38.370	5.0	40.00	0	95.9	77	129				
Chloromethane	37.940	5.0	40.00	0	94.8	80	120				
cis-1,2-Dichloroethene	39.410	5.0	40.00	0	98.5	80	120				
cis-1,3-Dichloropropene	41.420	5.0	40.00	0	104	80	120				
Dibromochloromethane	40.510	5.0	40.00	0	101	80	122				
Dibromomethane	41.720	5.0	40.00	0	104	80	120				
Dichlorodifluoromethane	39.120	5.0	40.00	0	97.8	64	135				
Ethylbenzene	38.950	5.0	40.00	0	97.4	80	120				
Hexachlorobutadiene	35.960	5.0	40.00	0	89.9	69	132				
Isopropylbenzene	39.600	5.0	40.00	0	99.0	79	121				
m,p-Xylene	77.590	10	80.00	0	97.0	80	121				
Methylene chloride	37.310	5.0	40.00	0	93.3	74	123				
MTBE	39.010	5.0	40.00	0	97.5	56	140				
n-Butylbenzene	40.300	5.0	40.00	0	101	72	131				
n-Propylbenzene	40.270	5.0	40.00	0	101	79	122				
Naphthalene	42.660	5.0	40.00	0	107	69	126				
o-Xylene	38.800	5.0	40.00	0	97.0	80	120				
sec-Butylbenzene	38.870	5.0	40.00	0	97.2	74	127				
Styrene	40.010	5.0	40.00	0	100	80	120				
tert-Butylbenzene	38.590	5.0	40.00	0	96.5	75	125				
Tetrachloroethene	37.820	5.0	40.00	0	94.6	80	120				
Toluene	37.550	5.0	40.00	0	93.9	80	120				
trans-1,2-Dichloroethene	39.950	5.0	40.00	0	99.9	80	125				
Trichloroethene	37.460	5.0	40.00	0	93.6	80	120				
Trichlorofluoromethane	38.220	5.0	40.00	0	95.6	67	152				
Vinyl chloride	41.200	5.0	40.00	0	103	69	135				
Surr: 1,2-Dichloroethane-d4	52.130		50.00		104	63	139				
Surr: 4-Bromofluorobenzene	49.040		50.00		98.1	75	124				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**Advanced Technology  
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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131108LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681339</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	50.590		50.00		101	70	133				
Surr: Toluene-d8	49.650		50.00		99.3	80	123				

Sample ID: <b>Q131108LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681340</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	39.030	5.0	40.00	0	97.6	80	123	37.90	2.94	20	
1,1,1-Trichloroethane	39.810	5.0	40.00	0	99.5	71	127	38.61	3.06	20	
1,1,2,2-Tetrachloroethane	43.210	5.0	40.00	0	108	80	120	42.19	2.39	20	
1,1,2-Trichloroethane	40.680	5.0	40.00	0	102	80	120	40.69	0.0246	20	
1,1-Dichloroethane	39.320	5.0	40.00	0	98.3	80	120	39.61	0.735	20	
1,1-Dichloroethene	38.760	5.0	40.00	0	96.9	80	121	38.05	1.85	20	
1,1-Dichloropropene	40.610	5.0	40.00	0	102	74	131	38.77	4.64	20	
1,2,3-Trichlorobenzene	40.030	5.0	40.00	0	100	64	137	38.93	2.79	20	
1,2,3-Trichloropropane	42.570	5.0	40.00	0	106	75	120	41.51	2.52	20	
1,2,4-Trichlorobenzene	40.210	5.0	40.00	0	101	75	128	39.01	3.03	20	
1,2,4-Trimethylbenzene	41.670	5.0	40.00	0	104	73	128	40.15	3.72	20	
1,2-Dibromo-3-chloropropane	46.830	10	40.00	0	117	53	143	42.68	9.27	20	
1,2-Dibromoethane	40.890	5.0	40.00	0	102	74	124	40.06	2.05	20	
1,2-Dichlorobenzene	40.370	5.0	40.00	0	101	80	120	38.66	4.33	20	
1,2-Dichloroethane	39.040	5.0	40.00	0	97.6	70	139	39.62	1.47	20	
1,2-Dichloropropane	39.160	5.0	40.00	0	97.9	80	120	39.81	1.65	20	
1,3,5-Trimethylbenzene	42.020	5.0	40.00	0	105	76	126	39.49	6.21	20	
1,3-Dichlorobenzene	40.540	5.0	40.00	0	101	80	120	38.74	4.54	20	
1,3-Dichloropropane	40.780	5.0	40.00	0	102	80	120	40.20	1.43	20	
1,4-Dichlorobenzene	37.830	5.0	40.00	0	94.6	80	120	37.66	0.450	20	
2,2-Dichloropropane	39.360	5.0	40.00	0	98.4	72	135	38.85	1.30	20	
2-Chlorotoluene	41.600	5.0	40.00	0	104	79	120	39.53	5.10	20	
4-Chlorotoluene	41.980	5.0	40.00	0	105	80	120	39.12	7.05	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

DO Surrogate Diluted Out  
**Advanced Technology Laboratories, Inc.**

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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

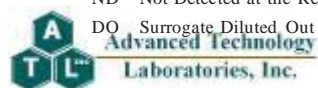
Sample ID: <b>Q131108LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>
Client ID: <b>LCSS02</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681340</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	41.410	5.0	40.00	0	104	76	126	39.42	4.92	20	
Benzene	39.940	5.0	40.00	0	99.8	80	120	38.87	2.72	20	
Bromobenzene	40.770	5.0	40.00	0	102	80	120	39.60	2.91	20	
Bromodichloromethane	39.620	5.0	40.00	0	99.0	79	131	39.21	1.04	20	
Bromoform	40.320	5.0	40.00	0	101	80	120	41.09	1.89	20	
Bromomethane	39.620	5.0	40.00	0	99.0	43	179	39.49	0.329	20	
Carbon tetrachloride	39.430	5.0	40.00	0	98.6	80	125	37.99	3.72	20	
Chlorobenzene	37.840	5.0	40.00	0	94.6	80	120	37.25	1.57	20	
Chloroethane	39.620	5.0	40.00	0	99.0	32	181	39.05	1.45	20	
Chloroform	39.570	5.0	40.00	0	98.9	77	129	38.37	3.08	20	
Chloromethane	38.920	5.0	40.00	0	97.3	80	120	37.94	2.55	20	
cis-1,2-Dichloroethene	39.630	5.0	40.00	0	99.1	80	120	39.41	0.557	20	
cis-1,3-Dichloropropene	42.390	5.0	40.00	0	106	80	120	41.42	2.31	20	
Dibromochloromethane	40.230	5.0	40.00	0	101	80	122	40.51	0.694	20	
Dibromomethane	41.740	5.0	40.00	0	104	80	120	41.72	0.0479	20	
Dichlorodifluoromethane	39.610	5.0	40.00	0	99.0	64	135	39.12	1.24	20	
Ethylbenzene	39.480	5.0	40.00	0	98.7	80	120	38.95	1.35	20	
Hexachlorobutadiene	37.770	5.0	40.00	0	94.4	69	132	35.96	4.91	20	
Isopropylbenzene	41.970	5.0	40.00	0	105	79	121	39.60	5.81	20	
m,p-Xylene	78.640	10	80.00	0	98.3	80	121	77.59	1.34	20	
Methylene chloride	37.100	5.0	40.00	0	92.8	74	123	37.31	0.564	20	
MTBE	38.790	5.0	40.00	0	97.0	56	140	39.01	0.566	20	
n-Butylbenzene	42.750	5.0	40.00	0	107	72	131	40.30	5.90	20	
n-Propylbenzene	42.450	5.0	40.00	0	106	79	122	40.27	5.27	20	
Naphthalene	44.660	5.0	40.00	0	112	69	126	42.66	4.58	20	
o-Xylene	40.050	5.0	40.00	0	100	80	120	38.80	3.17	20	
sec-Butylbenzene	41.440	5.0	40.00	0	104	74	127	38.87	6.40	20	
Styrene	40.640	5.0	40.00	0	102	80	120	40.01	1.56	20	
tert-Butylbenzene	41.590	5.0	40.00	0	104	75	125	38.59	7.48	20	
Tetrachloroethene	38.630	5.0	40.00	0	96.6	80	120	37.82	2.12	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

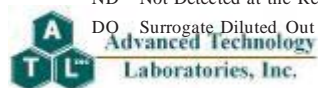
**TestCode: 8260ENC5035**

Sample ID: <b>Q131108LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681340</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	38.940	5.0	40.00	0	97.4	80	120	37.55	3.63	20	
trans-1,2-Dichloroethene	41.010	5.0	40.00	0	103	80	125	39.95	2.62	20	
Trichloroethene	38.840	5.0	40.00	0	97.1	80	120	37.46	3.62	20	
Trichlorofluoromethane	38.780	5.0	40.00	0	97.0	67	152	38.22	1.45	20	
Vinyl chloride	41.630	5.0	40.00	0	104	69	135	41.20	1.04	20	
Surr: 1,2-Dichloroethane-d4	50.080		50.00		100	63	139		0		
Surr: 4-Bromofluorobenzene	47.500		50.00		95.0	75	124		0		
Surr: Dibromofluoromethane	50.200		50.00		100	70	133		0		
Surr: Toluene-d8	50.640		50.00		101	80	123		0		

Sample ID: <b>Q131108MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681341</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131108MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681341</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



DO Surrogate Diluted Out  
**Advanced Technology Laboratories, Inc.**

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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131108MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681341</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	49.830		50.00		99.7	63	139				
Surr: 4-Bromofluorobenzene	46.230		50.00		92.5	75	124				
Surr: Dibromofluoromethane	48.530		50.00		97.1	70	133				
Surr: Toluene-d8	51.500		50.00		103	80	123				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**Advanced Technology  
 Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131113LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684661</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	41.120	5.0	40.00	0	103	80	123				
1,1,1-Trichloroethane	39.860	5.0	40.00	0	99.7	71	127				
1,1,2,2-Tetrachloroethane	38.170	5.0	40.00	0	95.4	80	120				
1,1,2-Trichloroethane	41.060	5.0	40.00	0	103	80	120				
1,1-Dichloroethane	39.890	5.0	40.00	0	99.7	80	120				
1,1-Dichloroethene	38.840	5.0	40.00	0	97.1	80	121				
1,1-Dichloropropene	39.260	5.0	40.00	0	98.2	74	131				
1,2,3-Trichlorobenzene	39.610	5.0	40.00	0	99.0	64	137				
1,2,3-Trichloropropane	38.340	5.0	40.00	0	95.9	75	120				
1,2,4-Trichlorobenzene	39.670	5.0	40.00	0	99.2	75	128				
1,2,4-Trimethylbenzene	39.990	5.0	40.00	0	100	73	128				
1,2-Dibromo-3-chloropropane	40.080	10	40.00	0	100	53	143				
1,2-Dibromoethane	38.730	5.0	40.00	0	96.8	74	124				
1,2-Dichlorobenzene	37.750	5.0	40.00	0	94.4	80	120				
1,2-Dichloroethane	40.900	5.0	40.00	0	102	70	139				
1,2-Dichloropropane	40.470	5.0	40.00	0	101	80	120				
1,3,5-Trimethylbenzene	39.830	5.0	40.00	0	99.6	76	126				
1,3-Dichlorobenzene	38.360	5.0	40.00	0	95.9	80	120				
1,3-Dichloropropane	40.570	5.0	40.00	0	101	80	120				
1,4-Dichlorobenzene	37.180	5.0	40.00	0	93.0	80	120				
2,2-Dichloropropane	41.280	5.0	40.00	0	103	72	135				
2-Chlorotoluene	38.760	5.0	40.00	0	96.9	79	120				
4-Chlorotoluene	38.980	5.0	40.00	0	97.5	80	120				
4-Isopropyltoluene	39.420	5.0	40.00	0	98.6	76	126				
Benzene	39.250	5.0	40.00	0	98.1	80	120				
Bromobenzene	38.690	5.0	40.00	0	96.7	80	120				
Bromodichloromethane	39.980	5.0	40.00	0	100	79	131				
Bromoform	41.270	5.0	40.00	0	103	80	120				
Bromomethane	37.730	5.0	40.00	0	94.3	43	179				
Carbon tetrachloride	40.080	5.0	40.00	0	100	80	125				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

DO Surrogate Diluted Out  
 Calculations are based on raw values  

**Advanced Technology Laboratories, Inc.** 3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131113LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684661</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	38.290	5.0	40.00	0	95.7	80	120				
Chloroethane	37.450	5.0	40.00	0	93.6	32	181				
Chloroform	39.340	5.0	40.00	0	98.4	77	129				
Chloromethane	37.150	5.0	40.00	0	92.9	80	120				
cis-1,2-Dichloroethene	39.690	5.0	40.00	0	99.2	80	120				
cis-1,3-Dichloropropene	42.310	5.0	40.00	0	106	80	120				
Dibromochloromethane	42.000	5.0	40.00	0	105	80	122				
Dibromomethane	41.620	5.0	40.00	0	104	80	120				
Dichlorodifluoromethane	38.360	5.0	40.00	0	95.9	64	135				
Ethylbenzene	39.450	5.0	40.00	0	98.6	80	120				
Hexachlorobutadiene	36.810	5.0	40.00	0	92.0	69	132				
Isopropylbenzene	39.340	5.0	40.00	0	98.4	79	121				
m,p-Xylene	80.420	10	80.00	0	101	80	121				
Methylene chloride	35.910	5.0	40.00	0	89.8	74	123				
MTBE	40.820	5.0	40.00	0	102	56	140				
n-Butylbenzene	40.670	5.0	40.00	0	102	72	131				
n-Propylbenzene	39.680	5.0	40.00	0	99.2	79	122				
Naphthalene	43.830	5.0	40.00	0	110	69	126				
o-Xylene	40.230	5.0	40.00	0	101	80	120				
sec-Butylbenzene	39.190	5.0	40.00	0	98.0	74	127				
Styrene	40.720	5.0	40.00	0	102	80	120				
tert-Butylbenzene	39.740	5.0	40.00	0	99.4	75	125				
Tetrachloroethene	39.830	5.0	40.00	0	99.6	80	120				
Toluene	38.430	5.0	40.00	0	96.1	80	120				
trans-1,2-Dichloroethene	40.120	5.0	40.00	0	100	80	125				
Trichloroethene	39.350	5.0	40.00	0	98.4	80	120				
Trichlorofluoromethane	39.050	5.0	40.00	0	97.6	67	152				
Vinyl chloride	39.080	5.0	40.00	0	97.7	69	135				
Surr: 1,2-Dichloroethane-d4	50.120		50.00		100	63	139				
Surr: 4-Bromofluorobenzene	50.610		50.00		101	75	124				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

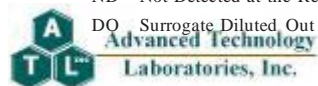
**TestCode: 8260ENC5035**

Sample ID: <b>Q131113LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684661</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	49.670		50.00		99.3	70	133				
Surr: Toluene-d8	49.540		50.00		99.1	80	123				

Sample ID: <b>N011449-008AMS</b>	SampType: <b>MS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684662</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	40.750	5.0	40.00	0	102	58	149				
1,1,1-Trichloroethane	39.820	5.0	40.00	0	99.6	67	126				
1,1,2,2-Tetrachloroethane	39.170	5.0	40.00	0	97.9	18	193				
1,1,2-Trichloroethane	42.360	5.0	40.00	0	106	70	136				
1,1-Dichloroethane	40.440	5.0	40.00	0	101	65	134				
1,1-Dichloroethene	37.710	5.0	40.00	0	94.3	61	135				
1,1-Dichloropropene	38.650	5.0	40.00	0	96.6	68	125				
1,2,3-Trichlorobenzene	38.340	5.0	40.00	0	95.9	40	134				
1,2,3-Trichloropropane	38.850	5.0	40.00	0	97.1	38	167				
1,2,4-Trichlorobenzene	37.950	5.0	40.00	0	94.9	40	132				
1,2,4-Trimethylbenzene	39.030	5.0	40.00	0	97.6	58	123				
1,2-Dibromo-3-chloropropane	40.340	10	40.00	0	101	30	181				
1,2-Dibromoethane	41.770	5.0	40.00	0	104	67	139				
1,2-Dichlorobenzene	37.650	5.0	40.00	0	94.1	65	122				
1,2-Dichloroethane	42.460	5.0	40.00	0	106	63	149				
1,2-Dichloropropane	40.590	5.0	40.00	0	101	69	127				
1,3,5-Trimethylbenzene	38.430	5.0	40.00	0	96.1	58	122				
1,3-Dichlorobenzene	37.330	5.0	40.00	0	93.3	64	120				
1,3-Dichloropropane	41.890	5.0	40.00	0	105	64	141				
1,4-Dichlorobenzene	36.360	5.0	40.00	0	90.9	62	122				
2,2-Dichloropropane	42.080	5.0	40.00	0	105	62	138				
2-Chlorotoluene	37.880	5.0	40.00	0	94.7	59	124				
4-Chlorotoluene	38.000	5.0	40.00	0	95.0	60	123				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

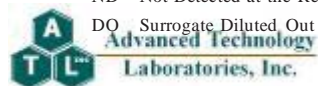
Sample ID: <b>N011449-008AMS</b>	SampType: <b>MS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684662</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	37.990	5.0	40.00	0	95.0	50	124				
Benzene	38.950	5.0	40.00	0	97.4	72	122				
Bromobenzene	38.980	5.0	40.00	0	97.5	64	129				
Bromodichloromethane	41.530	5.0	40.00	0	104	67	142				
Bromoform	42.390	5.0	40.00	0	106	35	192				
Bromomethane	37.380	5.0	40.00	0	93.5	62	150				
Carbon tetrachloride	39.910	5.0	40.00	0	99.8	56	142				
Chlorobenzene	38.100	5.0	40.00	0	95.2	71	120				
Chloroethane	37.850	5.0	40.00	0	94.6	55	149				
Chloroform	40.500	5.0	40.00	0	101	70	135				
Chloromethane	36.900	5.0	40.00	0	92.2	37	151				
cis-1,2-Dichloroethene	40.800	5.0	40.00	0	102	69	131				
cis-1,3-Dichloropropene	43.620	5.0	40.00	0	109	71	129				
Dibromochloromethane	42.970	5.0	40.00	0	107	53	161				
Dibromomethane	42.300	5.0	40.00	0	106	66	145				
Dichlorodifluoromethane	38.570	5.0	40.00	0	96.4	52	135				
Ethylbenzene	38.460	5.0	40.00	0	96.2	65	120				
Hexachlorobutadiene	34.450	5.0	40.00	0	86.1	22	135				
Isopropylbenzene	37.990	5.0	40.00	0	95.0	60	121				
m,p-Xylene	77.950	10	80.00	0	97.4	65	120				
Methylene chloride	38.620	5.0	40.00	0	96.6	55	138				
MTBE	43.900	5.0	40.00	0	110	64	149				
n-Butylbenzene	38.840	5.0	40.00	0	97.1	43	126				
n-Propylbenzene	37.970	5.0	40.00	0	94.9	56	122				
Naphthalene	42.540	5.0	40.00	0	106	48	139				
o-Xylene	39.580	5.0	40.00	0	99.0	67	118				
sec-Butylbenzene	37.480	5.0	40.00	0	93.7	50	123				
Styrene	40.080	5.0	40.00	0	100	57	129				
tert-Butylbenzene	38.310	5.0	40.00	0	95.8	54	121				
Tetrachloroethene	37.030	5.0	40.00	0	92.6	35	149				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

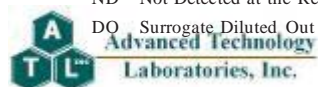
**TestCode: 8260ENC5035**

Sample ID: <b>N011449-008AMS</b>	SampType: <b>MS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684662</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	38.610	5.0	40.00	0	96.5	68	120				
trans-1,2-Dichloroethene	40.490	5.0	40.00	0	101	62	139				
Trichloroethene	39.260	5.0	40.00	0	98.2	63	134				
Trichlorofluoromethane	39.770	5.0	40.00	0	99.4	34	179				
Vinyl chloride	38.930	5.0	40.00	0	97.3	57	136				
Surr: 1,2-Dichloroethane-d4	52.960		50.00		106	63	139				
Surr: 4-Bromofluorobenzene	48.750		50.00		97.5	75	124				
Surr: Dibromofluoromethane	51.980		50.00		104	70	133				
Surr: Toluene-d8	49.410		50.00		98.8	80	123				

Sample ID: <b>Q131113MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684664</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131113MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684664</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

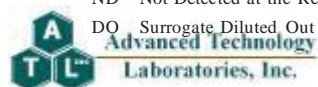
**TestCode: 8260ENC5035**

Sample ID: <b>Q131113MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684664</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	49.330		50.00		98.7	63	139				
Surr: 4-Bromofluorobenzene	47.450		50.00		94.9	75	124				
Surr: Dibromofluoromethane	47.980		50.00		96.0	70	133				
Surr: Toluene-d8	49.610		50.00		99.2	80	123				

Sample ID: <b>N011449-008AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684668</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	39.120	5.0	40.00	0	97.8	58	149	40.75	4.08	20	
1,1,1-Trichloroethane	39.640	5.0	40.00	0	99.1	67	126	39.82	0.453	20	
1,1,2,2-Tetrachloroethane	41.190	5.0	40.00	0	103	18	193	39.17	5.03	20	
1,1,2-Trichloroethane	43.350	5.0	40.00	0	108	70	136	42.36	2.31	20	
1,1-Dichloroethane	42.560	5.0	40.00	0	106	65	134	40.44	5.11	20	
1,1-Dichloroethene	39.030	5.0	40.00	0	97.6	61	135	37.71	3.44	20	
1,1-Dichloropropene	39.020	5.0	40.00	0	97.6	68	125	38.65	0.953	20	
1,2,3-Trichlorobenzene	35.660	5.0	40.00	0	89.2	40	134	38.34	7.24	20	
1,2,3-Trichloropropane	41.860	5.0	40.00	0	105	38	167	38.85	7.46	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          |  |  |
| Calculations are based on raw values              |  |  |



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

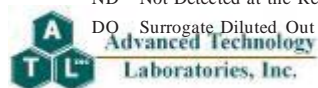
Sample ID: <b>N011449-008AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684668</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	35.850	5.0	40.00	0	89.6	40	132	37.95	5.69	20	
1,2,4-Trimethylbenzene	39.150	5.0	40.00	0	97.9	58	123	39.03	0.307	20	
1,2-Dibromo-3-chloropropane	41.680	10	40.00	0	104	30	181	40.34	3.27	20	
1,2-Dibromoethane	41.670	5.0	40.00	0	104	67	139	41.77	0.240	20	
1,2-Dichlorobenzene	37.920	5.0	40.00	0	94.8	65	122	37.65	0.715	20	
1,2-Dichloroethane	43.610	5.0	40.00	0	109	63	149	42.46	2.67	20	
1,2-Dichloropropane	41.820	5.0	40.00	0	105	69	127	40.59	2.99	20	
1,3,5-Trimethylbenzene	39.070	5.0	40.00	0	97.7	58	122	38.43	1.65	20	
1,3-Dichlorobenzene	38.080	5.0	40.00	0	95.2	64	120	37.33	1.99	20	
1,3-Dichloropropane	42.300	5.0	40.00	0	106	64	141	41.89	0.974	20	
1,4-Dichlorobenzene	36.970	5.0	40.00	0	92.4	62	122	36.36	1.66	20	
2,2-Dichloropropane	41.010	5.0	40.00	0	103	62	138	42.08	2.58	20	
2-Chlorotoluene	39.440	5.0	40.00	0	98.6	59	124	37.88	4.04	20	
4-Chlorotoluene	38.860	5.0	40.00	0	97.2	60	123	38.00	2.24	20	
4-Isopropyltoluene	37.800	5.0	40.00	0	94.5	50	124	37.99	0.501	20	
Benzene	40.320	5.0	40.00	0	101	72	122	38.95	3.46	20	
Bromobenzene	39.620	5.0	40.00	0	99.0	64	129	38.98	1.63	20	
Bromodichloromethane	40.720	5.0	40.00	0	102	67	142	41.53	1.97	20	
Bromoform	41.650	5.0	40.00	0	104	35	192	42.39	1.76	20	
Bromomethane	40.410	5.0	40.00	0	101	62	150	37.38	7.79	20	
Carbon tetrachloride	38.910	5.0	40.00	0	97.3	56	142	39.91	2.54	20	
Chlorobenzene	37.680	5.0	40.00	0	94.2	71	120	38.10	1.11	20	
Chloroethane	39.880	5.0	40.00	0	99.7	55	149	37.85	5.22	20	
Chloroform	41.050	5.0	40.00	0	103	70	135	40.50	1.35	20	
Chloromethane	38.680	5.0	40.00	0	96.7	37	151	36.90	4.71	20	
cis-1,2-Dichloroethene	42.040	5.0	40.00	0	105	69	131	40.80	2.99	20	
cis-1,3-Dichloropropene	43.340	5.0	40.00	0	108	71	129	43.62	0.644	20	
Dibromochloromethane	41.620	5.0	40.00	0	104	53	161	42.97	3.19	20	
Dibromomethane	42.880	5.0	40.00	0	107	66	145	42.30	1.36	20	
Dichlorodifluoromethane	39.220	5.0	40.00	0	98.0	52	135	38.57	1.67	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

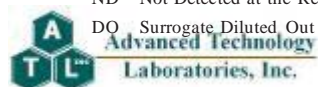
Sample ID: <b>N011449-008AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260ENC5035</b> Units: <b>µg/Kg</b>				Prep Date:			RunNo: <b>91183</b>		
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>				Analysis Date: <b>11/13/2013</b>			SeqNo: <b>1684668</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	38.170	5.0	40.00	0	95.4	65	120	38.46	0.757	20	
Hexachlorobutadiene	31.990	5.0	40.00	0	80.0	22	135	34.45	7.41	20	
Isopropylbenzene	38.890	5.0	40.00	0	97.2	60	121	37.99	2.34	20	
m,p-Xylene	76.560	10	80.00	0	95.7	65	120	77.95	1.80	20	
Methylene chloride	39.810	5.0	40.00	0	99.5	55	138	38.62	3.03	20	
MTBE	43.700	5.0	40.00	0	109	64	149	43.90	0.457	20	
n-Butylbenzene	38.520	5.0	40.00	0	96.3	43	126	38.84	0.827	20	
n-Propylbenzene	38.940	5.0	40.00	0	97.4	56	122	37.97	2.52	20	
Naphthalene	37.660	5.0	40.00	0	94.2	48	139	42.54	12.2	20	
o-Xylene	39.120	5.0	40.00	0	97.8	67	118	39.58	1.17	20	
sec-Butylbenzene	37.720	5.0	40.00	0	94.3	50	123	37.48	0.638	20	
Styrene	40.590	5.0	40.00	0	101	57	129	40.08	1.26	20	
tert-Butylbenzene	38.320	5.0	40.00	0	95.8	54	121	38.31	0.0261	20	
Tetrachloroethene	36.180	5.0	40.00	0	90.4	35	149	37.03	2.32	20	
Toluene	39.250	5.0	40.00	0	98.1	68	120	38.61	1.64	20	
trans-1,2-Dichloroethene	41.550	5.0	40.00	0	104	62	139	40.49	2.58	20	
Trichloroethene	37.270	5.0	40.00	0	93.2	63	134	39.26	5.20	20	
Trichlorofluoromethane	38.660	5.0	40.00	0	96.7	34	179	39.77	2.83	20	
Vinyl chloride	40.250	5.0	40.00	0	101	57	136	38.93	3.33	20	
Surr: 1,2-Dichloroethane-d4	55.520		50.00		111	63	139		0		
Surr: 4-Bromofluorobenzene	49.170		50.00		98.3	75	124		0		
Surr: Dibromofluoromethane	54.220		50.00		108	70	133		0		
Surr: Toluene-d8	51.250		50.00		103	80	123		0		

Sample ID: <b>N011449-026AMS</b>	SampType: <b>MS</b>	TestCode: <b>8260ENC5035</b> Units: <b>µg/Kg</b>				Prep Date:			RunNo: <b>91183</b>		
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>				Analysis Date: <b>11/13/2013</b>			SeqNo: <b>1684669</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	39.750	5.0	40.00	0	99.4	58	149				
1,1,1-Trichloroethane	40.400	5.0	40.00	0	101	67	126				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

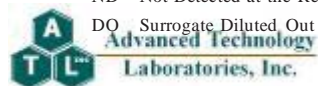
Sample ID: <b>N011449-026AMS</b>	SampType: <b>MS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684669</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	43.420	5.0	40.00	0	109	18	193				
1,1,2-Trichloroethane	43.920	5.0	40.00	0	110	70	136				
1,1-Dichloroethane	42.470	5.0	40.00	0	106	65	134				
1,1-Dichloroethene	39.070	5.0	40.00	0	97.7	61	135				
1,1-Dichloropropene	40.280	5.0	40.00	0	101	68	125				
1,2,3-Trichlorobenzene	36.450	5.0	40.00	0	91.1	40	134				
1,2,3-Trichloropropane	41.530	5.0	40.00	0	104	38	167				
1,2,4-Trichlorobenzene	37.020	5.0	40.00	0	92.6	40	132				
1,2,4-Trimethylbenzene	41.120	5.0	40.00	0	103	58	123				
1,2-Dibromo-3-chloropropane	41.600	10	40.00	0	104	30	181				
1,2-Dibromoethane	41.940	5.0	40.00	0	105	67	139				
1,2-Dichlorobenzene	39.520	5.0	40.00	0	98.8	65	122				
1,2-Dichloroethane	43.050	5.0	40.00	0	108	63	149				
1,2-Dichloropropane	42.710	5.0	40.00	0	107	69	127				
1,3,5-Trimethylbenzene	40.790	5.0	40.00	0	102	58	122				
1,3-Dichlorobenzene	39.090	5.0	40.00	0	97.7	64	120				
1,3-Dichloropropane	43.310	5.0	40.00	0	108	64	141				
1,4-Dichlorobenzene	38.480	5.0	40.00	0	96.2	62	122				
2,2-Dichloropropane	41.400	5.0	40.00	0	104	62	138				
2-Chlorotoluene	40.750	5.0	40.00	0	102	59	124				
4-Chlorotoluene	40.130	5.0	40.00	0	100	60	123				
4-Isopropyltoluene	39.410	5.0	40.00	0	98.5	50	124				
Benzene	41.400	5.0	40.00	0	104	72	122				
Bromobenzene	40.580	5.0	40.00	0	101	64	129				
Bromodichloromethane	42.090	5.0	40.00	0	105	67	142				
Bromoform	40.570	5.0	40.00	0	101	35	192				
Bromomethane	40.170	5.0	40.00	0	100	62	150				
Carbon tetrachloride	39.970	5.0	40.00	0	99.9	56	142				
Chlorobenzene	38.400	5.0	40.00	0	96.0	71	120				
Chloroethane	41.850	5.0	40.00	0	105	55	149				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691



**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011401  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>N011449-026AMS</b>	SampType: <b>MS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91183</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q13VS026</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684669</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	41.900	5.0	40.00	0	105	70	135				
Chloromethane	39.570	5.0	40.00	0	98.9	37	151				
cis-1,2-Dichloroethene	42.530	5.0	40.00	0	106	69	131				
cis-1,3-Dichloropropene	43.890	5.0	40.00	0	110	71	129				
Dibromochloromethane	41.660	5.0	40.00	0	104	53	161				
Dibromomethane	43.520	5.0	40.00	0	109	66	145				
Dichlorodifluoromethane	39.550	5.0	40.00	0	98.9	52	135				
Ethylbenzene	39.110	5.0	40.00	0	97.8	65	120				
Hexachlorobutadiene	32.560	5.0	40.00	0	81.4	22	135				
Isopropylbenzene	40.930	5.0	40.00	0	102	60	121				
m,p-Xylene	77.720	10	80.00	0	97.2	65	120				
Methylene chloride	40.970	5.0	40.00	0	102	55	138				
MTBE	43.990	5.0	40.00	0	110	64	149				
n-Butylbenzene	40.610	5.0	40.00	0	102	43	126				
n-Propylbenzene	40.640	5.0	40.00	0	102	56	122				
Naphthalene	39.940	5.0	40.00	0	99.8	48	139				
o-Xylene	39.560	5.0	40.00	0	98.9	67	118				
sec-Butylbenzene	39.840	5.0	40.00	0	99.6	50	123				
Styrene	40.700	5.0	40.00	0	102	57	129				
tert-Butylbenzene	39.680	5.0	40.00	0	99.2	54	121				
Tetrachloroethene	37.490	5.0	40.00	0	93.7	35	149				
Toluene	39.750	5.0	40.00	0	99.4	68	120				
trans-1,2-Dichloroethene	42.380	5.0	40.00	0	106	62	139				
Trichloroethene	38.770	5.0	40.00	0	96.9	63	134				
Trichlorofluoromethane	39.640	5.0	40.00	0	99.1	34	179				
Vinyl chloride	41.400	5.0	40.00	0	104	57	136				
Surr: 1,2-Dichloroethane-d4	54.720		50.00		109	63	139				
Surr: 4-Bromofluorobenzene	48.470		50.00		96.9	75	124				
Surr: Dibromofluoromethane	52.620		50.00		105	70	133				
Surr: Toluene-d8	50.540		50.00		101	80	123				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**Advanced Technology  
 Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

# CHAIN OF CUSTODY RECORD



3151-3153 W. Post Rd.  
Las Vegas, NV 89118  
Tel: (702) 307-2659 • Fax: (702) 307-2691

## FOR LABORATORY USE ONLY:

Method of Transport  
 ATL INC  
 FEDEX  
 Other: \_\_\_\_\_

Sample Condition Upon Receipt  
 1. CHILLED  Y  N  4. SEALED  Y  N   
 2. HEADSPACE (VOA)  Y  N  5. # OF SPLS MATCH COC  Y  N   
 3. CONTAINER INTACT  Y  N  6. PRESERVED  Y  N

Client: McGraw Hill Construction Address: 6280 S. VANEY VIEW BLD. # 609 TEL: (702) 260-4961  
 Attn: BRETT BOTENBERG City: LAS VEGAS State: NV Zip Code: 89118 FAX: (702) 260-4968  
 Project #: LUBEC007 Sampler: \_\_\_\_\_

Relinquished by: [Signature] Date: 11/7/13 Received by: [Signature] Date: 11/7/13 Time: 2:00  
 Relinquished by: [Signature] Date: \_\_\_\_\_ Received by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: [Signature] Date: \_\_\_\_\_ Received by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_

Send Report To: \_\_\_\_\_  
 Attn: BRETT BOTENBERG  
 Co: MLGA  
 Address: SAME AS ABOVE  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Special Instructions/Comments:  
bottenberg@mcgin.com

Circle or Add Analysis(es) Requested  
 8260B (NO)  8015B (GRO)  8015B (DRO) (Motor Oil/DRO)   
 PCRA8 (6010B/700)  SOIL   
 WATER  GROUND WATER  WASTEWATER

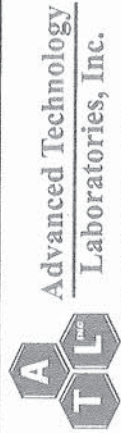
LAB USE ONLY: Batch #:	Sample Description	Sample I.D. / Location	Date	Time	QA/QC	REMARKS
1	SB1-S-1	SB1-S-1	11/6/13	9:15	RTNE <input type="checkbox"/> CT <input type="checkbox"/> RWQCB <input type="checkbox"/> LEVEL IV <input type="checkbox"/> OTHER <input type="checkbox"/>	
2	" -2	" -2	11/6/13	9:20		
3	" -3	" -3	11/6/13	9:20		
4	" -4	" -4	11/6/13	9:20		
5	SB1-S-5-1	SB1-S-5-1	11/6/13	9:55		
6	" -2	" -2	11/6/13	10:05		
7	" -3	" -3	11/6/13	10:10		
8	" -4	" -4	11/6/13	10:10		
9	SB1-S-10-3	SB1-S-10-3	11/6/13	10:45		
10	" -4	" -4	11/6/13	10:45		

Preservatives: H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(Ac)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
 Routine  E=7 Workdays  
 Urgent  D=3 Workdays  
 Critical  C=2 Workdays  
 Emergency  B=Next workday  
 TAT:  A=Overnight ≤ 24 hr  
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Bedlar G=Glass P=Plastic M=Metal

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter



# CHAIN OF CUSTODY RECORD



Advanced Technology Laboratories, Inc.  
3151-3153 W. Post Rd.  
Las Vegas, NV 89118  
Tel: (702) 307-2659 • Fax: (702) 307-2691

## FOR LABORATORY USE ONLY:

PO.# \_\_\_\_\_  
Logged By: HSC Date: 11/7/13

Method of Transport  
 Client  
 ATL INC  
 FEDEX  
 Other: \_\_\_\_\_

Sample Condition Upon Receipt  
 1. CHILLED  Y  N  4. SEALED  Y  N   
 2. HEADSPACE (VOA)  Y  N  5. # OF SPLS MATCH COC  Y  N   
 3. CONTAINER INTACT  Y  N  6. PRESERVED  Y  N

Client: \_\_\_\_\_ Address: \_\_\_\_\_ TEL: ( ) \_\_\_\_\_  
 Attn: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ FAX: ( ) \_\_\_\_\_

Project #: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Relinquished by: [Signature] Date: 11/7/13 Received by: Shirley HANAH GLOVER Date: 11/7/13 Time: 2:00  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

I hereby authorize ATL INC to perform the work indicated below:  
 Project Mgr/Submitter: BRET BOMENSKY Date: 11/13  
 \_\_\_\_\_ Date: \_\_\_\_\_  
 \_\_\_\_\_ Date: \_\_\_\_\_  
 \_\_\_\_\_ Date: \_\_\_\_\_

Special Instructions/Comments: \_\_\_\_\_  
 Bill To: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Co: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

LAB USE ONLY: Batch #:	Sample Description	Sample I.D. / Location		Date	Time	Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				PRESERVATION		Q A / Q C RTNE <input type="checkbox"/> GT <input type="checkbox"/> RWQCB <input type="checkbox"/> LEVEL IV <input type="checkbox"/> OTHER: _____	REMARKS	
		Sample I.D.	Location				WATER	GROUND WATER	WASTEWATER	Container(s)	TAT	Type			
N01401-11	581-S-10'-1	11	10	11/6/13	11:00	X									
12	11 -2				11:05	X									
13	587-S-15'-1				11:10	X									
14	11 -2				11:10	X									
15	11 -3				11:15	X									
16	11 -4				11:15	X									
17	587-S-20'-1				11:25	X									
18	11 -2				11:30	X									
19	11 -3				11:35	X									
20	11 -4				11:35	X									

Preservatives: H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(Ac)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>


Container Types: T=Tube V=VOA L=Liter P=Plastic J=Jar B=Bedlar M=Metal  
 TAT:  A=Overnight ≤ 24 hr  B=Emergency Next workday  
 C=Critical 2 Workdays  D=Urgent 3 Workdays  E=Routine 7 Workdays

•TAT starts 8 a.m. following day if samples received after 3 p.m.

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# CHAIN OF CUSTODY RECORD



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 Las Vegas, NV 89118  
 Tel: (702) 307-2659 • Fax: (702) 307-2691

## FOR LABORATORY USE ONLY:

Method of Transport  
 Client  ATL INC  FEDEX  Other: \_\_\_\_\_

Sample Condition Upon Receipt  
 1. CHILLED  2. SEALED  3. N/A  4. N/A  5. # OF SPLS MATCH COC  6. N/A  7. PRESERVED  8. N/A

Client: \_\_\_\_\_ Address: \_\_\_\_\_ TEL: ( ) \_\_\_\_\_  
 Attn: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ FAX: ( ) \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Relinquished by: (Signature and Printed name) BRET BERTENDEK Date: 11/7/13 Time: 2:00  
 Relinquished by: (Signature and Printed name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: (Signature and Printed name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

I hereby authorize ATL INC to perform the work indicated below:  
 Project Mgr/Submitter: BRET BERTENDEK Date: 11/7/13  
 Print Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Send Report To: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Co: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Special Instructions/Comments: \_\_\_\_\_  
 Bill To: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Co: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

LAB USE ONLY: Batch #:	Sample Description	Sample I.D. / Location		Date	Time	SPECIFY APPROPRIATE MATRIX						PRESERVATION		QA/QC	REMARKS		
		Lab No.	Sample I.D.			SOIL	GROUND WATER	WASTEWATER	Container(s)	TAT	Type	RTNE	CT			RWQCB	LEVEL IV
1-611401-21	SBI-5-25-1			11/6/13	11:45	X								3	ENV		
22	" -2				11:50	X								3	ENV		
23	" -3				11:55	X								1	JG		
24	" -4				11:55	X								1	JG		
25	SBI-5-30-1				12:15	X								3	ENV		
26	" -2				12:20	X								3	ENV		
27	" -3				12:25	X								1	JG		
28	" -4				12:25	X								1	JG		

Preservatives: H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
 TAT:  A= Overnight ≤ 24 hr  B= Emergency Next workday  C= Critical 2 Workdays  D= Urgent 3 Workdays  E= Routine 7 Workdays  
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Beadlar G=Glass P=Plastic M=Metal  
 \*TAT starts 8 a.m. following day if samples received after 3 p.m.

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter







## Sample Control

---

**From:** Hanah Glodoviza [hanah.glodoviza@atl-labs.com]  
**Sent:** Thursday, November 07, 2013 2:52 PM  
**To:** 'Sample Control'  
**Subject:** FW: PPG Industries

---

**From:** Marlon B. Cartin [<mailto:marlon@atl-labs.com>]  
**Sent:** Thursday, November 07, 2013 2:48 PM  
**To:** 'Brett Bottenberg'  
**Cc:** 'Hanah Glodoviza'  
**Subject:** RE: PPG Industries

Copy Brett!

Thank you,

Marlon

---

**From:** Brett Bottenberg [<mailto:bbottenberg@mcgin.com>]  
**Sent:** Thursday, November 07, 2013 2:41 PM  
**To:** Marlon B. Cartin  
**Subject:** Re: PPG Industries

just a standard VOC

**Brett C. Bottenberg, M.S., CEM**

 **McGinley & Associates**  
Environmental Engineering and Science  
6280 South Valley View Blvd., Suite 604  
Las Vegas, NV 89118

T: 702.260.4961 ext. 7003  
M: 702.232.5247  
F: 702.260.4968  
E: [bbottenberg@mcgin.com](mailto:bbottenberg@mcgin.com)  
W: [www.mcgin.com](http://www.mcgin.com)



On Thu, Nov 7, 2013 at 2:37 PM, Marlon B. Cartin <[marlon@atl-labs.com](mailto:marlon@atl-labs.com)> wrote:

Hi Brett!

I have initial question, for the 8260 of the above project, do you need Oxygenates to be reported?

Thanks,

**Marlon B. Cartin**

**Advanced Technology Laboratories, Inc.**

3151 W. Post Road

Las Vegas, NV 89118

Phone: [702-307-2659](tel:702-307-2659) ext 410

Mobile: [702-439-0421](tel:702-439-0421)

[www.atl-labs.com](http://www.atl-labs.com)

Advanced Technology Laboratories, Inc. is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Nevada and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. Advanced Technology Labs, Inc. - Your Partner for Quality Environmental Testing

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November 15, 2013

Brett Bottenberg  
Mc.Ginley and Associates  
6280 S. Valley View Blvd. Suite 604  
Las Vegas, NV 89118

TEL: (702) 260-4961

FAX: (702) 260-4968

CA-ELAP No.:2676

NV Cert. No.:NV-009222007A

Workorder No.: N011416

RE: PPG INDUSTRIES, LVBEC007

Attention: Brett Bottenberg

Enclosed are the results for sample(s) received on November 08, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

for 

Jose Tenorio Jr.

Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



**Advanced Technology  
Laboratories, Inc.**

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**CLIENT:** Mc.Ginley and Associates  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab Order:** N011416

---

**CASE NARRATIVE**

**SAMPLE RECEIVING/GENERAL COMMENTS:**

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

**Analytical Comments for EPA 8015B\_DRO/ORO:**

RPD for Matrix Spike(MS) and Matrix Spike Duplicate(MSD) is outside criteria ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-001

**Client Sample ID:** SB2-S-1-1  
**Collection Date:** 11/6/2013 3:30:00 PM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,1,1-Trichloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,1,2-Trichloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,1-Dichloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,1-Dichloroethene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,1-Dichloropropene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,2,3-Trichloropropane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg	1	11/11/2013 03:59 PM		
1,2-Dibromoethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,2-Dichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,2-Dichloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,2-Dichloropropane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,3-Dichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,3-Dichloropropane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
1,4-Dichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
2,2-Dichloropropane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
2-Chlorotoluene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
4-Chlorotoluene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
4-Isopropyltoluene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Benzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Bromobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Bromodichloromethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Bromoform	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Bromomethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Carbon tetrachloride	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Chlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Chloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Chloroform	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Chloromethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



**Advanced Technology  
Laboratories, Inc.**

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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB2-S-1-1
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/6/2013 3:30:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-001		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Dibromomethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Ethylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Hexachlorobutadiene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Isopropylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
m,p-Xylene	ND	10	µg/Kg	1	11/11/2013 03:59 PM		
Methylene chloride	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
MTBE	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
n-Butylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
n-Propylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Naphthalene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
o-Xylene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
sec-Butylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Styrene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
tert-Butylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Tetrachloroethene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Toluene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Trichloroethene	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Trichlorofluoromethane	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Vinyl chloride	ND	5.0	µg/Kg	1	11/11/2013 03:59 PM		
Surr: 1,2-Dichloroethane-d4	101	63-139	%REC	1	11/11/2013 03:59 PM		
Surr: 4-Bromofluorobenzene	87.6	75-124	%REC	1	11/11/2013 03:59 PM		
Surr: Dibromofluoromethane	85.4	70-133	%REC	1	11/11/2013 03:59 PM		
Surr: Toluene-d8	101	80-123	%REC	1	11/11/2013 03:59 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**Advanced Technology Laboratories, Inc.**

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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-003

**Client Sample ID:** SB2-S-1-3  
**Collection Date:** 11/6/2013 3:35:00 PM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	ND	10		mg/Kg	1	11/11/2013 08:45 PM
ORO	ND	10		mg/Kg	1	11/11/2013 08:45 PM
Surr: p-Terphenyl	84.2	52-175		%REC	1	11/11/2013 08:45 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



**Advanced Technology  
Laboratories, Inc.**

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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB2-S-1-4
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/6/2013 3:35:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-004		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**MERCURY BY COLD VAPOR TECHNIQUE**

**EPA 7471**

**EPA 7471A**

RunID: AA1_131112A	QC Batch: 44352			PrepDate: 11/12/2013	Analyst: LCC
Mercury	ND	0.099	mg/Kg	1	11/12/2013

**ICP METALS**

**EPA 3050B**

**EPA 6010B**

RunID: ICP2_131113A	QC Batch: 44330			PrepDate: 11/8/2013	Analyst: JAA
Arsenic	3.1	1.0	mg/Kg	1	11/13/2013 12:49 PM
Barium	35	1.0	mg/Kg	1	11/13/2013 12:49 PM
Cadmium	ND	1.0	mg/Kg	1	11/13/2013 12:49 PM
Chromium	1.5	1.0	mg/Kg	1	11/13/2013 12:49 PM
Lead	3.2	1.0	mg/Kg	1	11/13/2013 12:49 PM
Selenium	ND	1.0	mg/Kg	1	11/13/2013 12:49 PM
Silver	ND	1.0	mg/Kg	1	11/13/2013 12:49 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**Advanced Technology  
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-005

**Client Sample ID:** SB2-S-5-1  
**Collection Date:** 11/6/2013 3:45:00 PM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,1,1-Trichloroethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,1,2,2-Tetrachloroethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,1,2-Trichloroethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,1-Dichloroethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,1-Dichloroethene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,1-Dichloropropene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,2,3-Trichlorobenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,2,3-Trichloropropane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,2,4-Trichlorobenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,2,4-Trimethylbenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg	1	11/8/2013 06:44 PM		
1,2-Dibromoethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,2-Dichlorobenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,2-Dichloroethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,2-Dichloropropane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,3,5-Trimethylbenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,3-Dichlorobenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,3-Dichloropropane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
1,4-Dichlorobenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
2,2-Dichloropropane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
2-Chlorotoluene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
4-Chlorotoluene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
4-Isopropyltoluene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Benzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Bromobenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Bromodichloromethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Bromoform	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Bromomethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Carbon tetrachloride	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Chlorobenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Chloroethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Chloroform	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Chloromethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
cis-1,2-Dichloroethene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
cis-1,3-Dichloropropene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



**Advanced Technology  
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-005

**Client Sample ID:** SB2-S-5-1  
**Collection Date:** 11/6/2013 3:45:00 PM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Dibromomethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Dichlorodifluoromethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Ethylbenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Hexachlorobutadiene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Isopropylbenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
m,p-Xylene	ND	10	µg/Kg	1	11/8/2013 06:44 PM		
Methylene chloride	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
MTBE	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
n-Butylbenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
n-Propylbenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Naphthalene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
o-Xylene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
sec-Butylbenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Styrene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
tert-Butylbenzene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Tetrachloroethene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Toluene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
trans-1,2-Dichloroethene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Trichloroethene	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Trichlorofluoromethane	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Vinyl chloride	ND	5.2	µg/Kg	1	11/8/2013 06:44 PM		
Surr: 1,2-Dichloroethane-d4	103	63-139	%REC	1	11/8/2013 06:44 PM		
Surr: 4-Bromofluorobenzene	89.6	75-124	%REC	1	11/8/2013 06:44 PM		
Surr: Dibromofluoromethane	90.9	70-133	%REC	1	11/8/2013 06:44 PM		
Surr: Toluene-d8	100	80-123	%REC	1	11/8/2013 06:44 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 15-Nov-13

CLIENT: Mc.Ginley and Associates
Lab Order: N011416
Project: PPG INDUSTRIES, LVBEC007
Lab ID: N011416-006

Client Sample ID: SB2-S-5-2
Collection Date: 11/6/2013 3:47:00 PM
Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4\_131111A QC Batch: E13VS118 PrepDate: 11/7/2013 Analyst: PN
GRO ND 0.98 mg/Kg 1 11/11/2013 01:45 PM
Surr: Chlorobenzene - d5 102 51-136 %REC 1 11/11/2013 01:45 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-007

**Client Sample ID:** SB2-S-5-3  
**Collection Date:** 11/6/2013 3:50:00 PM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	ND	10		mg/Kg	1	11/11/2013 09:10 PM
ORO	ND	10		mg/Kg	1	11/11/2013 09:10 PM
Surr: p-Terphenyl	66.9	52-175		%REC	1	11/11/2013 09:10 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB2-S-5-4
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/6/2013 3:50:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-008		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471</b>			<b>EPA 7471A</b>			
RunID: AA1_131112A	QC Batch: 44352			PrepDate: 11/12/2013		Analyst: LCC
Mercury	ND	0.10		mg/Kg	1	11/12/2013
<b>ICP METALS</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: ICP2_131113A	QC Batch: 44330			PrepDate: 11/8/2013		Analyst: JAA
Arsenic	3.9	1.0		mg/Kg	1	11/13/2013 12:56 PM
Barium	31	1.0		mg/Kg	1	11/13/2013 12:56 PM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 12:56 PM
Chromium	5.7	1.0		mg/Kg	1	11/13/2013 12:56 PM
Lead	7.1	1.0		mg/Kg	1	11/13/2013 12:56 PM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 12:56 PM
Silver	ND	1.0		mg/Kg	1	11/13/2013 12:56 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-009

**Client Sample ID:** SB2-S-10-1  
**Collection Date:** 11/6/2013 4:10:00 PM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,1,1-Trichloroethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,1,2,2-Tetrachloroethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,1,2-Trichloroethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,1-Dichloroethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,1-Dichloroethene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,1-Dichloropropene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,2,3-Trichlorobenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,2,3-Trichloropropane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,2,4-Trichlorobenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,2,4-Trimethylbenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg	1	11/8/2013 04:56 PM		
1,2-Dibromoethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,2-Dichlorobenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,2-Dichloroethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,2-Dichloropropane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,3,5-Trimethylbenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,3-Dichlorobenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,3-Dichloropropane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
1,4-Dichlorobenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
2,2-Dichloropropane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
2-Chlorotoluene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
4-Chlorotoluene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
4-Isopropyltoluene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Benzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Bromobenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Bromodichloromethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Bromoform	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Bromomethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Carbon tetrachloride	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Chlorobenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Chloroethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Chloroform	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Chloromethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
cis-1,2-Dichloroethene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
cis-1,3-Dichloropropene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB2-S-10-1
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/6/2013 4:10:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-009		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Dibromomethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Dichlorodifluoromethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Ethylbenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Hexachlorobutadiene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Isopropylbenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
m,p-Xylene	ND	10	µg/Kg	1	11/8/2013 04:56 PM		
Methylene chloride	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
MTBE	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
n-Butylbenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
n-Propylbenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Naphthalene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
o-Xylene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
sec-Butylbenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Styrene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
tert-Butylbenzene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Tetrachloroethene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Toluene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
trans-1,2-Dichloroethene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Trichloroethene	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Trichlorofluoromethane	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Vinyl chloride	ND	5.1	µg/Kg	1	11/8/2013 04:56 PM		
Surr: 1,2-Dichloroethane-d4	99.3	63-139	%REC	1	11/8/2013 04:56 PM		
Surr: 4-Bromofluorobenzene	89.3	75-124	%REC	1	11/8/2013 04:56 PM		
Surr: Dibromofluoromethane	92.1	70-133	%REC	1	11/8/2013 04:56 PM		
Surr: Toluene-d8	99.0	80-123	%REC	1	11/8/2013 04:56 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB2-S-10-3
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/6/2013 4:17:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-011		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	ND	10		mg/Kg	1	11/11/2013 09:36 PM
ORO	ND	10		mg/Kg	1	11/11/2013 09:36 PM
Surr: p-Terphenyl	105	52-175		%REC	1	11/11/2013 09:36 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB2-S-10-4
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/6/2013 4:17:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-012		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**MERCURY BY COLD VAPOR TECHNIQUE**

**EPA 7471**

**EPA 7471A**

RunID: AA1_131112A	QC Batch: 44352			PrepDate: 11/12/2013	Analyst: LCC
Mercury	ND	0.10	mg/Kg	1	11/12/2013

**ICP METALS**

**EPA 3050B**

**EPA 6010B**

RunID: ICP2_131113A	QC Batch: 44330			PrepDate: 11/8/2013	Analyst: JAA
Arsenic	5.8	1.0	mg/Kg	1	11/13/2013 01:03 PM
Barium	54	1.0	mg/Kg	1	11/13/2013 01:03 PM
Cadmium	ND	1.0	mg/Kg	1	11/13/2013 01:03 PM
Chromium	1.8	1.0	mg/Kg	1	11/13/2013 01:03 PM
Lead	3.6	1.0	mg/Kg	1	11/13/2013 01:03 PM
Selenium	ND	1.0	mg/Kg	1	11/13/2013 01:03 PM
Silver	ND	1.0	mg/Kg	1	11/13/2013 01:03 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**Advanced Technology  
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**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB2-S-15-1
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/7/2013 8:10:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-013		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,1,1-Trichloroethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,1,2-Trichloroethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,1-Dichloroethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,1-Dichloroethene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,1-Dichloropropene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,2,3-Trichloropropane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,2-Dibromo-3-chloropropane	ND	9.9	µg/Kg	1	11/8/2013 07:28 PM		
1,2-Dibromoethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,2-Dichlorobenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,2-Dichloroethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,2-Dichloropropane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,3-Dichlorobenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,3-Dichloropropane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
1,4-Dichlorobenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
2,2-Dichloropropane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
2-Chlorotoluene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
4-Chlorotoluene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
4-Isopropyltoluene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Benzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Bromobenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Bromodichloromethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Bromoform	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Bromomethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Carbon tetrachloride	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Chlorobenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Chloroethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Chloroform	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Chloromethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**Advanced Technology  
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-013

**Client Sample ID:** SB2-S-15-1  
**Collection Date:** 11/7/2013 8:10:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Dibromomethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Ethylbenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Hexachlorobutadiene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Isopropylbenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
m,p-Xylene	ND	9.9	µg/Kg	1	11/8/2013 07:28 PM		
Methylene chloride	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
MTBE	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
n-Butylbenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
n-Propylbenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Naphthalene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
o-Xylene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
sec-Butylbenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Styrene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
tert-Butylbenzene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Tetrachloroethene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Toluene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Trichloroethene	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Trichlorofluoromethane	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Vinyl chloride	ND	5.0	µg/Kg	1	11/8/2013 07:28 PM		
Surr: 1,2-Dichloroethane-d4	102	63-139	%REC	1	11/8/2013 07:28 PM		
Surr: 4-Bromofluorobenzene	87.8	75-124	%REC	1	11/8/2013 07:28 PM		
Surr: Dibromofluoromethane	97.4	70-133	%REC	1	11/8/2013 07:28 PM		
Surr: Toluene-d8	101	80-123	%REC	1	11/8/2013 07:28 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 15-Nov-13

CLIENT: Mc.Ginley and Associates
Lab Order: N011416
Project: PPG INDUSTRIES, LVBEC007
Lab ID: N011416-014

Client Sample ID: SB2-S-15-2
Collection Date: 11/7/2013 8:13:00 AM
Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4\_131111A QC Batch: E13VS118 PrepDate: 11/7/2013 Analyst: PN
GRO ND 1.0 mg/Kg 1 11/11/2013 02:42 PM
Surr: Chlorobenzene - d5 101 51-136 %REC 1 11/11/2013 02:42 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-015

**Client Sample ID:** SB2-S-15-3  
**Collection Date:** 11/7/2013 8:20:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
<b>EPA 3550B</b>			<b>EPA 8015B</b>			
RunID: GC1_131111A	QC Batch: 44345				PrepDate: 11/11/2013	Analyst: <b>MDM</b>
DRO	ND	10		mg/Kg	1	11/11/2013 10:01 PM
ORO	ND	10		mg/Kg	1	11/11/2013 10:01 PM
Surr: p-Terphenyl	94.7	52-175		%REC	1	11/11/2013 10:01 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB2-S-15-4
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/7/2013 8:20:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-016		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**MERCURY BY COLD VAPOR TECHNIQUE**

**EPA 7471**

**EPA 7471A**

RunID: AA1_131112A	QC Batch: 44352				PrepDate: 11/12/2013	Analyst: LCC
Mercury	0.10	0.10		mg/Kg	1	11/12/2013

**ICP METALS**

**EPA 3050B**

**EPA 6010B**

RunID: ICP2_131113A	QC Batch: 44330				PrepDate: 11/8/2013	Analyst: JAA
Arsenic	4.2	1.0		mg/Kg	1	11/13/2013 01:10 PM
Barium	120	1.0		mg/Kg	1	11/13/2013 01:10 PM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 01:10 PM
Chromium	8.4	1.0		mg/Kg	1	11/13/2013 01:10 PM
Lead	ND	1.0		mg/Kg	1	11/13/2013 01:10 PM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 01:10 PM
Silver	ND	1.0		mg/Kg	1	11/13/2013 01:10 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-017

**Client Sample ID:** SB2-S-20-1  
**Collection Date:** 11/7/2013 8:28:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,1,1-Trichloroethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,1,2,2-Tetrachloroethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,1,2-Trichloroethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,1-Dichloroethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,1-Dichloroethene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,1-Dichloropropene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,2,3-Trichlorobenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,2,3-Trichloropropane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,2,4-Trichlorobenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,2,4-Trimethylbenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,2-Dibromo-3-chloropropane	ND	9.1	µg/Kg	1	11/8/2013 07:06 PM		
1,2-Dibromoethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,2-Dichlorobenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,2-Dichloroethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,2-Dichloropropane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,3,5-Trimethylbenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,3-Dichlorobenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,3-Dichloropropane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
1,4-Dichlorobenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
2,2-Dichloropropane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
2-Chlorotoluene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
4-Chlorotoluene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
4-Isopropyltoluene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Benzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Bromobenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Bromodichloromethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Bromoform	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Bromomethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Carbon tetrachloride	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Chlorobenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Chloroethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Chloroform	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Chloromethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
cis-1,2-Dichloroethene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
cis-1,3-Dichloropropene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



**Advanced Technology  
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-017

**Client Sample ID:** SB2-S-20-1  
**Collection Date:** 11/7/2013 8:28:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131108A	QC Batch:	Q13VS024	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Dibromomethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Dichlorodifluoromethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Ethylbenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Hexachlorobutadiene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Isopropylbenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
m,p-Xylene	ND	9.1	µg/Kg	1	11/8/2013 07:06 PM		
Methylene chloride	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
MTBE	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
n-Butylbenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
n-Propylbenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Naphthalene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
o-Xylene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
sec-Butylbenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Styrene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
tert-Butylbenzene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Tetrachloroethene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Toluene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
trans-1,2-Dichloroethene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Trichloroethene	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Trichlorofluoromethane	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Vinyl chloride	ND	4.6	µg/Kg	1	11/8/2013 07:06 PM		
Surr: 1,2-Dichloroethane-d4	99.6	63-139	%REC	1	11/8/2013 07:06 PM		
Surr: 4-Bromofluorobenzene	86.4	75-124	%REC	1	11/8/2013 07:06 PM		
Surr: Dibromofluoromethane	92.7	70-133	%REC	1	11/8/2013 07:06 PM		
Surr: Toluene-d8	97.7	80-123	%REC	1	11/8/2013 07:06 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB2-S-20-3
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/7/2013 8:33:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-019		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	ND	10		mg/Kg	1	11/11/2013 10:27 PM
ORO	ND	10		mg/Kg	1	11/11/2013 10:27 PM
Surr: p-Terphenyl	106	52-175		%REC	1	11/11/2013 10:27 PM

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB2-S-20-4
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/7/2013 8:33:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-020		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**MERCURY BY COLD VAPOR TECHNIQUE**

**EPA 7471**

**EPA 7471A**

RunID: AA1_131112A	QC Batch: 44352				PrepDate: 11/12/2013	Analyst: LCC
Mercury	ND	0.10		mg/Kg	1	11/12/2013

**ICP METALS**

**EPA 3050B**

**EPA 6010B**

RunID: ICP2_131113A	QC Batch: 44330				PrepDate: 11/8/2013	Analyst: JAA
Arsenic	9.9	1.0		mg/Kg	1	11/13/2013 01:37 PM
Barium	69	1.0		mg/Kg	1	11/13/2013 01:37 PM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 01:37 PM
Chromium	2.6	1.0		mg/Kg	1	11/13/2013 01:37 PM
Lead	3.7	1.0		mg/Kg	1	11/13/2013 01:37 PM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 01:37 PM
Silver	ND	1.0		mg/Kg	1	11/13/2013 01:37 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**Advanced Technology  
Laboratories, Inc.**

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**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-021

**Client Sample ID:** SB3-S-5-1  
**Collection Date:** 11/7/2013 9:42:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,1,1-Trichloroethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,1,2,2-Tetrachloroethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,1,2-Trichloroethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,1-Dichloroethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,1-Dichloroethene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,1-Dichloropropene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,2,3-Trichlorobenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,2,3-Trichloropropane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,2,4-Trichlorobenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,2,4-Trimethylbenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,2-Dibromo-3-chloropropane	ND	8.2	µg/Kg	1	11/11/2013 04:43 PM		
1,2-Dibromoethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,2-Dichlorobenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,2-Dichloroethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,2-Dichloropropane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,3,5-Trimethylbenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,3-Dichlorobenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,3-Dichloropropane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
1,4-Dichlorobenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
2,2-Dichloropropane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
2-Chlorotoluene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
4-Chlorotoluene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
4-Isopropyltoluene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Benzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Bromobenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Bromodichloromethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Bromoform	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Bromomethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Carbon tetrachloride	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Chlorobenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Chloroethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Chloroform	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Chloromethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
cis-1,2-Dichloroethene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
cis-1,3-Dichloropropene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB3-S-5-1
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/7/2013 9:42:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-021		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Dibromomethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Dichlorodifluoromethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Ethylbenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Hexachlorobutadiene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Isopropylbenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
m,p-Xylene	ND	8.2	µg/Kg	1	11/11/2013 04:43 PM		
Methylene chloride	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
MTBE	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
n-Butylbenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
n-Propylbenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Naphthalene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
o-Xylene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
sec-Butylbenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Styrene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
tert-Butylbenzene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Tetrachloroethene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Toluene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
trans-1,2-Dichloroethene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Trichloroethene	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Trichlorofluoromethane	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Vinyl chloride	ND	4.1	µg/Kg	1	11/11/2013 04:43 PM		
Surr: 1,2-Dichloroethane-d4	102	63-139	%REC	1	11/11/2013 04:43 PM		
Surr: 4-Bromofluorobenzene	87.7	75-124	%REC	1	11/11/2013 04:43 PM		
Surr: Dibromofluoromethane	96.8	70-133	%REC	1	11/11/2013 04:43 PM		
Surr: Toluene-d8	99.3	80-123	%REC	1	11/11/2013 04:43 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB3-S-5-2
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/7/2013 9:44:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-022		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B**

RunID: GC4_131111A	QC Batch: E13VS118	PrepDate: 11/7/2013	Analyst: <b>PN</b>		
GRO	ND	0.84	mg/Kg	1	11/11/2013 04:37 PM
Surr: Chlorobenzene - d5	96.9	51-136	%REC	1	11/11/2013 04:37 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-023

**Client Sample ID:** SB3-S-5-3  
**Collection Date:** 11/7/2013 9:48:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
<b>EPA 3550B</b>			<b>EPA 8015B</b>			
RunID: GC1_131111A	QC Batch: 44345				PrepDate: 11/11/2013	Analyst: <b>MDM</b>
DRO	ND	10		mg/Kg	1	11/11/2013 10:52 PM
ORO	ND	10		mg/Kg	1	11/11/2013 10:52 PM
Surr: p-Terphenyl	106	52-175		%REC	1	11/11/2013 10:52 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-024

**Client Sample ID:** SB3-S-5-4  
**Collection Date:** 11/7/2013 9:48:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**MERCURY BY COLD VAPOR TECHNIQUE**

**EPA 7471**

**EPA 7471A**

RunID: AA1_131112A	QC Batch: 44352				PrepDate: 11/12/2013	Analyst: LCC
Mercury	ND	0.10		mg/Kg	1	11/12/2013

**ICP METALS**

**EPA 3050B**

**EPA 6010B**

RunID: ICP2_131113A	QC Batch: 44330				PrepDate: 11/8/2013	Analyst: JAA
Arsenic	3.9	1.0		mg/Kg	1	11/13/2013 01:44 PM
Barium	22	1.0		mg/Kg	1	11/13/2013 01:44 PM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 01:44 PM
Chromium	2.0	1.0		mg/Kg	1	11/13/2013 01:44 PM
Lead	3.1	1.0		mg/Kg	1	11/13/2013 01:44 PM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 01:44 PM
Silver	ND	1.0		mg/Kg	1	11/13/2013 01:44 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-025

**Client Sample ID:** SB4-S-4-1  
**Collection Date:** 11/7/2013 9:57:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,1,1-Trichloroethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,1,2,2-Tetrachloroethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,1,2-Trichloroethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,1-Dichloroethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,1-Dichloroethene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,1-Dichloropropene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,2,3-Trichlorobenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,2,3-Trichloropropane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,2,4-Trichlorobenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,2,4-Trimethylbenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,2-Dibromo-3-chloropropane	ND	9.3	µg/Kg	1	11/11/2013 04:21 PM		
1,2-Dibromoethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,2-Dichlorobenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,2-Dichloroethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,2-Dichloropropane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,3,5-Trimethylbenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,3-Dichlorobenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,3-Dichloropropane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
1,4-Dichlorobenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
2,2-Dichloropropane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
2-Chlorotoluene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
4-Chlorotoluene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
4-Isopropyltoluene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Benzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Bromobenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Bromodichloromethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Bromoform	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Bromomethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Carbon tetrachloride	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Chlorobenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Chloroethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Chloroform	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Chloromethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
cis-1,2-Dichloroethene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
cis-1,3-Dichloropropene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011416-025

**Client Sample ID:** SB4-S-4-1  
**Collection Date:** 11/7/2013 9:57:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Dibromomethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Dichlorodifluoromethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Ethylbenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Hexachlorobutadiene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Isopropylbenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
m,p-Xylene	ND	9.3	µg/Kg	1	11/11/2013 04:21 PM		
Methylene chloride	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
MTBE	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
n-Butylbenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
n-Propylbenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Naphthalene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
o-Xylene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
sec-Butylbenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Styrene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
tert-Butylbenzene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Tetrachloroethene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Toluene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
trans-1,2-Dichloroethene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Trichloroethene	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Trichlorofluoromethane	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Vinyl chloride	ND	4.6	µg/Kg	1	11/11/2013 04:21 PM		
Surr: 1,2-Dichloroethane-d4	99.2	63-139	%REC	1	11/11/2013 04:21 PM		
Surr: 4-Bromofluorobenzene	87.9	75-124	%REC	1	11/11/2013 04:21 PM		
Surr: Dibromofluoromethane	93.4	70-133	%REC	1	11/11/2013 04:21 PM		
Surr: Toluene-d8	97.4	80-123	%REC	1	11/11/2013 04:21 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB4-S-4-2
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/7/2013 9:58:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-026		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B**

RunID: GC4_131111A	QC Batch: E13VS118	PrepDate: 11/7/2013	Analyst: <b>PN</b>		
GRO	ND	0.84	mg/Kg	1	11/11/2013 05:05 PM
Surr: Chlorobenzene - d5	103	51-136	%REC	1	11/11/2013 05:05 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB4-S-4-3
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/7/2013 10:01:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-027		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	ND	9.9		mg/Kg	1	11/11/2013 11:18 PM
ORO	ND	9.9		mg/Kg	1	11/11/2013 11:18 PM
Surr: p-Terphenyl	91.8	52-175		%REC	1	11/11/2013 11:18 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SB4-S-4-4
<b>Lab Order:</b>	N011416	<b>Collection Date:</b>	11/7/2013 10:01:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011416-028		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471</b>			<b>EPA 7471A</b>			
RunID: AA1_131112A	QC Batch: 44352			PrepDate: 11/12/2013		Analyst: LCC
Mercury	ND	0.099		mg/Kg	1	11/12/2013
<b>ICP METALS</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: ICP2_131113A	QC Batch: 44330			PrepDate: 11/8/2013		Analyst: JAA
Arsenic	3.3	1.0		mg/Kg	1	11/13/2013 01:51 PM
Barium	28	1.0		mg/Kg	1	11/13/2013 01:51 PM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 01:51 PM
Chromium	1.2	1.0		mg/Kg	1	11/13/2013 01:51 PM
Lead	1.5	1.0		mg/Kg	1	11/13/2013 01:51 PM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 01:51 PM
Silver	ND	1.0		mg/Kg	1	11/13/2013 01:51 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 6010\_S**

Sample ID: <b>MB-44330</b>	SampType: <b>MBLK</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>PBS</b>	Batch ID: <b>44330</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684171</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									
Barium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Lead	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									

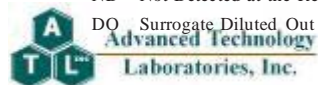
Sample ID: <b>LCS-44330</b>	SampType: <b>LCS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>44330</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684172</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	26.066	1.0	25.00	0	104	80	120				
Barium	26.069	1.0	25.00	0	104	80	120				
Cadmium	25.186	1.0	25.00	0	101	80	120				
Chromium	25.780	1.0	25.00	0	103	80	120				
Lead	26.335	1.0	25.00	0	105	80	120				
Selenium	23.367	1.0	25.00	0	93.5	80	120				
Silver	22.528	1.0	25.00	0	90.1	80	120				

Sample ID: <b>N011415-004A-MS</b>	SampType: <b>MS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44330</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684178</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	47.741	1.0	24.99	20.80	108	75	125				
Barium	49.156	1.0	24.99	24.06	100	75	125				
Cadmium	23.221	1.0	24.99	0	92.9	75	125				
Chromium	25.802	1.0	24.99	2.212	94.4	75	125				

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010\_S**

Sample ID: <b>N011415-004A-MS</b>	SampType: <b>MS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44330</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684178</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	45.978	1.0	24.99	21.80	96.8	75	125				
Selenium	22.496	1.0	24.99	0	90.0	75	125				
Silver	18.668	1.0	24.99	0	74.7	75	125				S

Sample ID: <b>N011415-004A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44330</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684179</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	45.430	1.0	24.95	20.80	98.7	75	125	47.74	4.96	20	
Barium	45.082	1.0	24.95	24.06	84.2	75	125	49.16	8.65	20	
Cadmium	22.605	1.0	24.95	0	90.6	75	125	23.22	2.69	20	
Chromium	25.028	1.0	24.95	2.212	91.4	75	125	25.80	3.04	20	
Lead	41.589	1.0	24.95	21.80	79.3	75	125	45.98	10.0	20	
Selenium	21.733	1.0	24.95	0	87.1	75	125	22.50	3.45	20	
Silver	18.407	1.0	24.95	0	73.8	75	125	18.67	1.41	20	S

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 7471\_S**

Sample ID: <b>LCS-44352</b>	SampType: <b>LCS</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/12/2013</b>	RunNo: <b>91140</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>44352</b>	TestNo: <b>EPA 7471A EPA 7471</b>		Analysis Date: <b>11/12/2013</b>	SeqNo: <b>1681939</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.426	0.10	0.4230	0	101	80	120				

Sample ID: <b>MB-44352</b>	SampType: <b>MBLK</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/12/2013</b>	RunNo: <b>91140</b>						
Client ID: <b>PBS</b>	Batch ID: <b>44352</b>	TestNo: <b>EPA 7471A EPA 7471</b>		Analysis Date: <b>11/12/2013</b>	SeqNo: <b>1681940</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: <b>N011415-004A-MS</b>	SampType: <b>MS</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/12/2013</b>	RunNo: <b>91140</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44352</b>	TestNo: <b>EPA 7471A EPA 7471</b>		Analysis Date: <b>11/12/2013</b>	SeqNo: <b>1681942</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.429	0.10	0.4202	0.01030	99.7	75	125				

Sample ID: <b>N011415-004A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/12/2013</b>	RunNo: <b>91140</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44352</b>	TestNo: <b>EPA 7471A EPA 7471</b>		Analysis Date: <b>11/12/2013</b>	SeqNo: <b>1681943</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.434	0.10	0.4181	0.01030	101	75	125	0.4291	1.17	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_DM H**

Sample ID: <b>LCS-44345</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_DM H</b> Units: <b>mg/Kg</b>				Prep Date: <b>11/11/2013</b>			RunNo: <b>91126</b>		
Client ID: <b>LCSS</b>	Batch ID: <b>44345</b>	TestNo: <b>EPA 8015B EPA 3550B</b>				Analysis Date: <b>11/11/2013</b>			SeqNo: <b>1681312</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	899.809	10	1000	0	90.0	65	119				
Surr: p-Terphenyl	81.987		80.00		102	52	175				

Sample ID: <b>MB-44345</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_DM H</b> Units: <b>mg/Kg</b>				Prep Date: <b>11/11/2013</b>			RunNo: <b>91126</b>		
Client ID: <b>PBS</b>	Batch ID: <b>44345</b>	TestNo: <b>EPA 8015B EPA 3550B</b>				Analysis Date: <b>11/11/2013</b>			SeqNo: <b>1681313</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	7.956	10									
ORO	4.826	10									
Surr: p-Terphenyl	72.516		80.00		90.6	52	175				

Sample ID: <b>N011401-003A-MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_S_DM H</b> Units: <b>mg/Kg</b>				Prep Date: <b>11/11/2013</b>			RunNo: <b>91126</b>		
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44345</b>	TestNo: <b>EPA 8015B EPA 3550B</b>				Analysis Date: <b>11/11/2013</b>			SeqNo: <b>1681335</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	518.121	10	1010	25.98	48.7	32	171				
Surr: p-Terphenyl	66.584		80.81		82.4	52	175				

Sample ID: <b>N011401-003A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_S_DM H</b> Units: <b>mg/Kg</b>				Prep Date: <b>11/11/2013</b>			RunNo: <b>91126</b>		
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44345</b>	TestNo: <b>EPA 8015B EPA 3550B</b>				Analysis Date: <b>11/12/2013</b>			SeqNo: <b>1681336</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	806.239	10	999.0	25.98	78.1	32	171	518.1	43.5	20	R
Surr: p-Terphenyl	70.422		79.92		88.1	52	175		0		

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          |  |  |
| Calculations are based on raw values              |  |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015GAS\_5035U**

Sample ID: <b>E131111LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91132</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>E13VS118</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681521</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	6.022	1.0	5.000	0	120	77	122				
Surr: Chlorobenzene - d5	107.692		100.0		108	51	136				

Sample ID: <b>E131111MB1</b>	SampType: <b>MBLK</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91132</b>						
Client ID: <b>PBS</b>	Batch ID: <b>E13VS118</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681522</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.059	1.0									
Surr: Chlorobenzene - d5	101.839		100.0		102	51	136				

Sample ID: <b>E131111LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91132</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>E13VS118</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681523</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.854	1.0	5.000	0	117	77	122	6.022	2.83	20	
Surr: Chlorobenzene - d5	107.879		100.0		108	51	136		0		

Sample ID: <b>N011406-001BMS</b>	SampType: <b>MS</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91132</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E13VS118</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681540</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	38804.000	2000	10000	27690	111	41	132				
Surr: Chlorobenzene - d5	193184.000		200000		96.6	51	136				

Sample ID: <b>N011406-001BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91132</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E13VS118</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681541</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	36968.000	2000	10000	27690	92.8	41	132	38800	4.85	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015GAS\_5035U

Sample ID: <b>N011406-001BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015GAS_503</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>91132</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E13VS118</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681541</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	194574.000		200000		97.3	51	136			0	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131108LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b> Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681339</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	37.900	5.0	40.00	0	94.8	80	123				
1,1,1-Trichloroethane	38.610	5.0	40.00	0	96.5	71	127				
1,1,2,2-Tetrachloroethane	42.190	5.0	40.00	0	105	80	120				
1,1,2-Trichloroethane	40.690	5.0	40.00	0	102	80	120				
1,1-Dichloroethane	39.610	5.0	40.00	0	99.0	80	120				
1,1-Dichloroethene	38.050	5.0	40.00	0	95.1	80	121				
1,1-Dichloropropene	38.770	5.0	40.00	0	96.9	74	131				
1,2,3-Trichlorobenzene	38.930	5.0	40.00	0	97.3	64	137				
1,2,3-Trichloropropane	41.510	5.0	40.00	0	104	75	120				
1,2,4-Trichlorobenzene	39.010	5.0	40.00	0	97.5	75	128				
1,2,4-Trimethylbenzene	40.150	5.0	40.00	0	100	73	128				
1,2-Dibromo-3-chloropropane	42.680	10	40.00	0	107	53	143				
1,2-Dibromoethane	40.060	5.0	40.00	0	100	74	124				
1,2-Dichlorobenzene	38.660	5.0	40.00	0	96.7	80	120				
1,2-Dichloroethane	39.620	5.0	40.00	0	99.0	70	139				
1,2-Dichloropropane	39.810	5.0	40.00	0	99.5	80	120				
1,3,5-Trimethylbenzene	39.490	5.0	40.00	0	98.7	76	126				
1,3-Dichlorobenzene	38.740	5.0	40.00	0	96.9	80	120				
1,3-Dichloropropane	40.200	5.0	40.00	0	101	80	120				
1,4-Dichlorobenzene	37.660	5.0	40.00	0	94.2	80	120				
2,2-Dichloropropane	38.850	5.0	40.00	0	97.1	72	135				
2-Chlorotoluene	39.530	5.0	40.00	0	98.8	79	120				
4-Chlorotoluene	39.120	5.0	40.00	0	97.8	80	120				
4-Isopropyltoluene	39.420	5.0	40.00	0	98.6	76	126				
Benzene	38.870	5.0	40.00	0	97.2	80	120				
Bromobenzene	39.600	5.0	40.00	0	99.0	80	120				
Bromodichloromethane	39.210	5.0	40.00	0	98.0	79	131				
Bromoform	41.090	5.0	40.00	0	103	80	120				
Bromomethane	39.490	5.0	40.00	0	98.7	43	179				
Carbon tetrachloride	37.990	5.0	40.00	0	95.0	80	125				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131108LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681339</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	37.250	5.0	40.00	0	93.1	80	120				
Chloroethane	39.050	5.0	40.00	0	97.6	32	181				
Chloroform	38.370	5.0	40.00	0	95.9	77	129				
Chloromethane	37.940	5.0	40.00	0	94.8	80	120				
cis-1,2-Dichloroethene	39.410	5.0	40.00	0	98.5	80	120				
cis-1,3-Dichloropropene	41.420	5.0	40.00	0	104	80	120				
Dibromochloromethane	40.510	5.0	40.00	0	101	80	122				
Dibromomethane	41.720	5.0	40.00	0	104	80	120				
Dichlorodifluoromethane	39.120	5.0	40.00	0	97.8	64	135				
Ethylbenzene	38.950	5.0	40.00	0	97.4	80	120				
Hexachlorobutadiene	35.960	5.0	40.00	0	89.9	69	132				
Isopropylbenzene	39.600	5.0	40.00	0	99.0	79	121				
m,p-Xylene	77.590	10	80.00	0	97.0	80	121				
Methylene chloride	37.310	5.0	40.00	0	93.3	74	123				
MTBE	39.010	5.0	40.00	0	97.5	56	140				
n-Butylbenzene	40.300	5.0	40.00	0	101	72	131				
n-Propylbenzene	40.270	5.0	40.00	0	101	79	122				
Naphthalene	42.660	5.0	40.00	0	107	69	126				
o-Xylene	38.800	5.0	40.00	0	97.0	80	120				
sec-Butylbenzene	38.870	5.0	40.00	0	97.2	74	127				
Styrene	40.010	5.0	40.00	0	100	80	120				
tert-Butylbenzene	38.590	5.0	40.00	0	96.5	75	125				
Tetrachloroethene	37.820	5.0	40.00	0	94.6	80	120				
Toluene	37.550	5.0	40.00	0	93.9	80	120				
trans-1,2-Dichloroethene	39.950	5.0	40.00	0	99.9	80	125				
Trichloroethene	37.460	5.0	40.00	0	93.6	80	120				
Trichlorofluoromethane	38.220	5.0	40.00	0	95.6	67	152				
Vinyl chloride	41.200	5.0	40.00	0	103	69	135				
Surr: 1,2-Dichloroethane-d4	52.130		50.00		104	63	139				
Surr: 4-Bromofluorobenzene	49.040		50.00		98.1	75	124				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**Advanced Technology  
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CLIENT: Mc.Ginley and Associates  
 Work Order: N011416  
 Project: PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

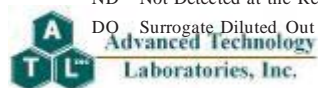
TestCode: 8260ENC5035

Sample ID: <b>Q131108LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681339</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	50.590		50.00		101	70	133				
Surr: Toluene-d8	49.650		50.00		99.3	80	123				

Sample ID: <b>Q131108LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681340</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	39.030	5.0	40.00	0	97.6	80	123	37.90	2.94	20	
1,1,1-Trichloroethane	39.810	5.0	40.00	0	99.5	71	127	38.61	3.06	20	
1,1,2,2-Tetrachloroethane	43.210	5.0	40.00	0	108	80	120	42.19	2.39	20	
1,1,2-Trichloroethane	40.680	5.0	40.00	0	102	80	120	40.69	0.0246	20	
1,1-Dichloroethane	39.320	5.0	40.00	0	98.3	80	120	39.61	0.735	20	
1,1-Dichloroethene	38.760	5.0	40.00	0	96.9	80	121	38.05	1.85	20	
1,1-Dichloropropene	40.610	5.0	40.00	0	102	74	131	38.77	4.64	20	
1,2,3-Trichlorobenzene	40.030	5.0	40.00	0	100	64	137	38.93	2.79	20	
1,2,3-Trichloropropane	42.570	5.0	40.00	0	106	75	120	41.51	2.52	20	
1,2,4-Trichlorobenzene	40.210	5.0	40.00	0	101	75	128	39.01	3.03	20	
1,2,4-Trimethylbenzene	41.670	5.0	40.00	0	104	73	128	40.15	3.72	20	
1,2-Dibromo-3-chloropropane	46.830	10	40.00	0	117	53	143	42.68	9.27	20	
1,2-Dibromoethane	40.890	5.0	40.00	0	102	74	124	40.06	2.05	20	
1,2-Dichlorobenzene	40.370	5.0	40.00	0	101	80	120	38.66	4.33	20	
1,2-Dichloroethane	39.040	5.0	40.00	0	97.6	70	139	39.62	1.47	20	
1,2-Dichloropropane	39.160	5.0	40.00	0	97.9	80	120	39.81	1.65	20	
1,3,5-Trimethylbenzene	42.020	5.0	40.00	0	105	76	126	39.49	6.21	20	
1,3-Dichlorobenzene	40.540	5.0	40.00	0	101	80	120	38.74	4.54	20	
1,3-Dichloropropane	40.780	5.0	40.00	0	102	80	120	40.20	1.43	20	
1,4-Dichlorobenzene	37.830	5.0	40.00	0	94.6	80	120	37.66	0.450	20	
2,2-Dichloropropane	39.360	5.0	40.00	0	98.4	72	135	38.85	1.30	20	
2-Chlorotoluene	41.600	5.0	40.00	0	104	79	120	39.53	5.10	20	
4-Chlorotoluene	41.980	5.0	40.00	0	105	80	120	39.12	7.05	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          |  |  |
| Calculations are based on raw values              |  |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

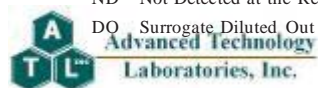
Sample ID: <b>Q131108LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>
Client ID: <b>LCSS02</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681340</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	41.410	5.0	40.00	0	104	76	126	39.42	4.92	20	
Benzene	39.940	5.0	40.00	0	99.8	80	120	38.87	2.72	20	
Bromobenzene	40.770	5.0	40.00	0	102	80	120	39.60	2.91	20	
Bromodichloromethane	39.620	5.0	40.00	0	99.0	79	131	39.21	1.04	20	
Bromoform	40.320	5.0	40.00	0	101	80	120	41.09	1.89	20	
Bromomethane	39.620	5.0	40.00	0	99.0	43	179	39.49	0.329	20	
Carbon tetrachloride	39.430	5.0	40.00	0	98.6	80	125	37.99	3.72	20	
Chlorobenzene	37.840	5.0	40.00	0	94.6	80	120	37.25	1.57	20	
Chloroethane	39.620	5.0	40.00	0	99.0	32	181	39.05	1.45	20	
Chloroform	39.570	5.0	40.00	0	98.9	77	129	38.37	3.08	20	
Chloromethane	38.920	5.0	40.00	0	97.3	80	120	37.94	2.55	20	
cis-1,2-Dichloroethene	39.630	5.0	40.00	0	99.1	80	120	39.41	0.557	20	
cis-1,3-Dichloropropene	42.390	5.0	40.00	0	106	80	120	41.42	2.31	20	
Dibromochloromethane	40.230	5.0	40.00	0	101	80	122	40.51	0.694	20	
Dibromomethane	41.740	5.0	40.00	0	104	80	120	41.72	0.0479	20	
Dichlorodifluoromethane	39.610	5.0	40.00	0	99.0	64	135	39.12	1.24	20	
Ethylbenzene	39.480	5.0	40.00	0	98.7	80	120	38.95	1.35	20	
Hexachlorobutadiene	37.770	5.0	40.00	0	94.4	69	132	35.96	4.91	20	
Isopropylbenzene	41.970	5.0	40.00	0	105	79	121	39.60	5.81	20	
m,p-Xylene	78.640	10	80.00	0	98.3	80	121	77.59	1.34	20	
Methylene chloride	37.100	5.0	40.00	0	92.8	74	123	37.31	0.564	20	
MTBE	38.790	5.0	40.00	0	97.0	56	140	39.01	0.566	20	
n-Butylbenzene	42.750	5.0	40.00	0	107	72	131	40.30	5.90	20	
n-Propylbenzene	42.450	5.0	40.00	0	106	79	122	40.27	5.27	20	
Naphthalene	44.660	5.0	40.00	0	112	69	126	42.66	4.58	20	
o-Xylene	40.050	5.0	40.00	0	100	80	120	38.80	3.17	20	
sec-Butylbenzene	41.440	5.0	40.00	0	104	74	127	38.87	6.40	20	
Styrene	40.640	5.0	40.00	0	102	80	120	40.01	1.56	20	
tert-Butylbenzene	41.590	5.0	40.00	0	104	75	125	38.59	7.48	20	
Tetrachloroethene	38.630	5.0	40.00	0	96.6	80	120	37.82	2.12	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

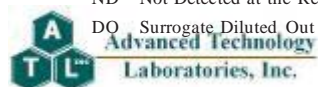
**TestCode: 8260ENC5035**

Sample ID: <b>Q131108LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681340</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	38.940	5.0	40.00	0	97.4	80	120	37.55	3.63	20	
trans-1,2-Dichloroethene	41.010	5.0	40.00	0	103	80	125	39.95	2.62	20	
Trichloroethene	38.840	5.0	40.00	0	97.1	80	120	37.46	3.62	20	
Trichlorofluoromethane	38.780	5.0	40.00	0	97.0	67	152	38.22	1.45	20	
Vinyl chloride	41.630	5.0	40.00	0	104	69	135	41.20	1.04	20	
Surr: 1,2-Dichloroethane-d4	50.080		50.00		100	63	139		0		
Surr: 4-Bromofluorobenzene	47.500		50.00		95.0	75	124		0		
Surr: Dibromofluoromethane	50.200		50.00		100	70	133		0		
Surr: Toluene-d8	50.640		50.00		101	80	123		0		

Sample ID: <b>Q131108MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681341</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131108MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681341</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
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| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131108MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91127</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS024</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/8/2013</b>	SeqNo: <b>1681341</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	49.830		50.00		99.7	63	139				
Surr: 4-Bromofluorobenzene	46.230		50.00		92.5	75	124				
Surr: Dibromofluoromethane	48.530		50.00		97.1	70	133				
Surr: Toluene-d8	51.500		50.00		103	80	123				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

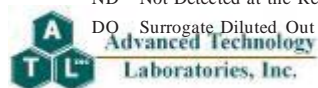
Sample ID: <b>Q131111LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682661</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	39.540	5.0	40.00	0	98.8	80	123				
1,1,1-Trichloroethane	39.570	5.0	40.00	0	98.9	71	127				
1,1,2,2-Tetrachloroethane	41.430	5.0	40.00	0	104	80	120				
1,1,2-Trichloroethane	40.820	5.0	40.00	0	102	80	120				
1,1-Dichloroethane	40.550	5.0	40.00	0	101	80	120				
1,1-Dichloroethene	39.430	5.0	40.00	0	98.6	80	121				
1,1-Dichloropropene	39.840	5.0	40.00	0	99.6	74	131				
1,2,3-Trichlorobenzene	39.690	5.0	40.00	0	99.2	64	137				
1,2,3-Trichloropropane	40.300	5.0	40.00	0	101	75	120				
1,2,4-Trichlorobenzene	39.020	5.0	40.00	0	97.6	75	128				
1,2,4-Trimethylbenzene	40.300	5.0	40.00	0	101	73	128				
1,2-Dibromo-3-chloropropane	44.080	10	40.00	0	110	53	143				
1,2-Dibromoethane	39.690	5.0	40.00	0	99.2	74	124				
1,2-Dichlorobenzene	38.260	5.0	40.00	0	95.7	80	120				
1,2-Dichloroethane	40.200	5.0	40.00	0	101	70	139				
1,2-Dichloropropane	40.070	5.0	40.00	0	100	80	120				
1,3,5-Trimethylbenzene	40.570	5.0	40.00	0	101	76	126				
1,3-Dichlorobenzene	38.570	5.0	40.00	0	96.4	80	120				
1,3-Dichloropropane	41.400	5.0	40.00	0	104	80	120				
1,4-Dichlorobenzene	38.280	5.0	40.00	0	95.7	80	120				
2,2-Dichloropropane	40.250	5.0	40.00	0	101	72	135				
2-Chlorotoluene	40.020	5.0	40.00	0	100	79	120				
4-Chlorotoluene	39.760	5.0	40.00	0	99.4	80	120				
4-Isopropyltoluene	40.070	5.0	40.00	0	100	76	126				
Benzene	39.950	5.0	40.00	0	99.9	80	120				
Bromobenzene	38.850	5.0	40.00	0	97.1	80	120				
Bromodichloromethane	40.530	5.0	40.00	0	101	79	131				
Bromoform	41.800	5.0	40.00	0	104	80	120				
Bromomethane	38.790	5.0	40.00	0	97.0	43	179				
Carbon tetrachloride	39.740	5.0	40.00	0	99.4	80	125				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131111LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b> Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682661</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	38.580	5.0	40.00	0	96.5	80	120				
Chloroethane	39.900	5.0	40.00	0	99.8	32	181				
Chloroform	38.710	5.0	40.00	0	96.8	77	129				
Chloromethane	39.640	5.0	40.00	0	99.1	80	120				
cis-1,2-Dichloroethene	39.530	5.0	40.00	0	98.8	80	120				
cis-1,3-Dichloropropene	42.210	5.0	40.00	0	106	80	120				
Dibromochloromethane	41.190	5.0	40.00	0	103	80	122				
Dibromomethane	41.180	5.0	40.00	0	103	80	120				
Dichlorodifluoromethane	39.750	5.0	40.00	0	99.4	64	135				
Ethylbenzene	40.290	5.0	40.00	0	101	80	120				
Hexachlorobutadiene	38.320	5.0	40.00	0	95.8	69	132				
Isopropylbenzene	40.500	5.0	40.00	0	101	79	121				
m,p-Xylene	80.770	10	80.00	0	101	80	121				
Methylene chloride	37.420	5.0	40.00	0	93.6	74	123				
MTBE	38.200	5.0	40.00	0	95.5	56	140				
n-Butylbenzene	41.480	5.0	40.00	0	104	72	131				
n-Propylbenzene	40.930	5.0	40.00	0	102	79	122				
Naphthalene	42.910	5.0	40.00	0	107	69	126				
o-Xylene	39.890	5.0	40.00	0	99.7	80	120				
sec-Butylbenzene	40.520	5.0	40.00	0	101	74	127				
Styrene	40.760	5.0	40.00	0	102	80	120				
tert-Butylbenzene	39.690	5.0	40.00	0	99.2	75	125				
Tetrachloroethene	39.960	5.0	40.00	0	99.9	80	120				
Toluene	39.110	5.0	40.00	0	97.8	80	120				
trans-1,2-Dichloroethene	40.730	5.0	40.00	0	102	80	125				
Trichloroethene	38.060	5.0	40.00	0	95.2	80	120				
Trichlorofluoromethane	40.050	5.0	40.00	0	100	67	152				
Vinyl chloride	41.850	5.0	40.00	0	105	69	135				
Surr: 1,2-Dichloroethane-d4	50.450		50.00		101	63	139				
Surr: 4-Bromofluorobenzene	48.670		50.00		97.3	75	124				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131111LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682661</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	49.610		50.00		99.2	70	133				
Surr: Toluene-d8	50.140		50.00		100	80	123				

Sample ID: <b>Q131111LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682662</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	40.270	5.0	40.00	0	101	80	123	39.54	1.83	20	
1,1,1-Trichloroethane	41.630	5.0	40.00	0	104	71	127	39.57	5.07	20	
1,1,2,2-Tetrachloroethane	43.150	5.0	40.00	0	108	80	120	41.43	4.07	20	
1,1,2-Trichloroethane	42.190	5.0	40.00	0	105	80	120	40.82	3.30	20	
1,1-Dichloroethane	42.420	5.0	40.00	0	106	80	120	40.55	4.51	20	
1,1-Dichloroethene	40.510	5.0	40.00	0	101	80	121	39.43	2.70	20	
1,1-Dichloropropene	40.780	5.0	40.00	0	102	74	131	39.84	2.33	20	
1,2,3-Trichlorobenzene	41.240	5.0	40.00	0	103	64	137	39.69	3.83	20	
1,2,3-Trichloropropane	41.920	5.0	40.00	0	105	75	120	40.30	3.94	20	
1,2,4-Trichlorobenzene	40.930	5.0	40.00	0	102	75	128	39.02	4.78	20	
1,2,4-Trimethylbenzene	42.490	5.0	40.00	0	106	73	128	40.30	5.29	20	
1,2-Dibromo-3-chloropropane	43.790	10	40.00	0	109	53	143	44.08	0.660	20	
1,2-Dibromoethane	40.670	5.0	40.00	0	102	74	124	39.69	2.44	20	
1,2-Dichlorobenzene	39.930	5.0	40.00	0	99.8	80	120	38.26	4.27	20	
1,2-Dichloroethane	40.690	5.0	40.00	0	102	70	139	40.20	1.21	20	
1,2-Dichloropropane	41.250	5.0	40.00	0	103	80	120	40.07	2.90	20	
1,3,5-Trimethylbenzene	42.610	5.0	40.00	0	107	76	126	40.57	4.91	20	
1,3-Dichlorobenzene	41.120	5.0	40.00	0	103	80	120	38.57	6.40	20	
1,3-Dichloropropane	42.720	5.0	40.00	0	107	80	120	41.40	3.14	20	
1,4-Dichlorobenzene	39.470	5.0	40.00	0	98.7	80	120	38.28	3.06	20	
2,2-Dichloropropane	41.790	5.0	40.00	0	104	72	135	40.25	3.75	20	
2-Chlorotoluene	42.330	5.0	40.00	0	106	79	120	40.02	5.61	20	
4-Chlorotoluene	42.110	5.0	40.00	0	105	80	120	39.76	5.74	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**Advanced Technology  
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131111LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>
Client ID: <b>LCSS02</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682662</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	42.560	5.0	40.00	0	106	76	126	40.07	6.03	20	
Benzene	41.220	5.0	40.00	0	103	80	120	39.95	3.13	20	
Bromobenzene	41.260	5.0	40.00	0	103	80	120	38.85	6.02	20	
Bromodichloromethane	40.090	5.0	40.00	0	100	79	131	40.53	1.09	20	
Bromoform	42.030	5.0	40.00	0	105	80	120	41.80	0.549	20	
Bromomethane	40.580	5.0	40.00	0	101	43	179	38.79	4.51	20	
Carbon tetrachloride	41.080	5.0	40.00	0	103	80	125	39.74	3.32	20	
Chlorobenzene	39.930	5.0	40.00	0	99.8	80	120	38.58	3.44	20	
Chloroethane	41.870	5.0	40.00	0	105	32	181	39.90	4.82	20	
Chloroform	41.420	5.0	40.00	0	104	77	129	38.71	6.76	20	
Chloromethane	41.210	5.0	40.00	0	103	80	120	39.64	3.88	20	
cis-1,2-Dichloroethene	42.240	5.0	40.00	0	106	80	120	39.53	6.63	20	
cis-1,3-Dichloropropene	41.570	5.0	40.00	0	104	80	120	42.21	1.53	20	
Dibromochloromethane	42.840	5.0	40.00	0	107	80	122	41.19	3.93	20	
Dibromomethane	42.480	5.0	40.00	0	106	80	120	41.18	3.11	20	
Dichlorodifluoromethane	42.430	5.0	40.00	0	106	64	135	39.75	6.52	20	
Ethylbenzene	41.870	5.0	40.00	0	105	80	120	40.29	3.85	20	
Hexachlorobutadiene	39.510	5.0	40.00	0	98.8	69	132	38.32	3.06	20	
Isopropylbenzene	42.880	5.0	40.00	0	107	79	121	40.50	5.71	20	
m,p-Xylene	83.630	10	80.00	0	105	80	121	80.77	3.48	20	
Methylene chloride	38.950	5.0	40.00	0	97.4	74	123	37.42	4.01	20	
MTBE	39.920	5.0	40.00	0	99.8	56	140	38.20	4.40	20	
n-Butylbenzene	44.220	5.0	40.00	0	111	72	131	41.48	6.39	20	
n-Propylbenzene	43.460	5.0	40.00	0	109	79	122	40.93	6.00	20	
Naphthalene	44.430	5.0	40.00	0	111	69	126	42.91	3.48	20	
o-Xylene	41.410	5.0	40.00	0	104	80	120	39.89	3.74	20	
sec-Butylbenzene	42.580	5.0	40.00	0	106	74	127	40.52	4.96	20	
Styrene	42.190	5.0	40.00	0	105	80	120	40.76	3.45	20	
tert-Butylbenzene	41.870	5.0	40.00	0	105	75	125	39.69	5.35	20	
Tetrachloroethene	40.550	5.0	40.00	0	101	80	120	39.96	1.47	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

DO Surrogate Diluted Out  
 Calculations are based on raw values  

 3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691



**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131111LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682662</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	39.730	5.0	40.00	0	99.3	80	120	39.11	1.57	20	
trans-1,2-Dichloroethene	42.270	5.0	40.00	0	106	80	125	40.73	3.71	20	
Trichloroethene	39.070	5.0	40.00	0	97.7	80	120	38.06	2.62	20	
Trichlorofluoromethane	40.460	5.0	40.00	0	101	67	152	40.05	1.02	20	
Vinyl chloride	43.530	5.0	40.00	0	109	69	135	41.85	3.94	20	
Surr: 1,2-Dichloroethane-d4	52.320		50.00		105	63	139		0		
Surr: 4-Bromofluorobenzene	50.760		50.00		102	75	124		0		
Surr: Dibromofluoromethane	51.450		50.00		103	70	133		0		
Surr: Toluene-d8	51.170		50.00		102	80	123		0		

Sample ID: <b>Q131111MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682663</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**Advanced Technology  
 Laboratories, Inc.**

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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131111MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682663</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



DO Surrogate Diluted Out  
**Advanced Technology Laboratories, Inc.**

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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011416  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131111MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b> Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>							
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682663</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	49.820		50.00		99.6	63	139				
Surr: 4-Bromofluorobenzene	45.400		50.00		90.8	75	124				
Surr: Dibromofluoromethane	49.340		50.00		98.7	70	133				
Surr: Toluene-d8	51.380		50.00		103	80	123				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**Advanced Technology  
 Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691



# CHAIN OF CUSTODY RECORD

**Advanced Technology Laboratories, Inc.**  
 3151-3153 W. Post Rd.  
 Las Vegas, NV 89118  
 Tel: (702) 307-2659 • Fax: (702) 307-2691

## FOR LABORATORY USE ONLY:

Method of Transport:  Client  ATL INC  FEDEX  Other: \_\_\_\_\_

Sample Condition Upon Receipt: 1. CHILLED  2. SEaled  3. CONTAINER INTACT  4. PRESERVED  5. # OF SPLS MATCH COC  6. PRESERVED  7. Y  8. N  9. Y  10. N  11. Y  12. N  13. Y  14. N  15. Y  16. N  17. Y  18. N  19. Y  20. N  21. Y  22. N  23. Y  24. N  25. Y  26. N  27. Y  28. N  29. Y  30. N  31. Y  32. N  33. Y  34. N  35. Y  36. N  37. Y  38. N  39. Y  40. N  41. Y  42. N  43. Y  44. N  45. Y  46. N  47. Y  48. N  49. Y  50. N  51. Y  52. N  53. Y  54. N  55. Y  56. N  57. Y  58. N  59. Y  60. N  61. Y  62. N  63. Y  64. N  65. Y  66. N  67. Y  68. N  69. Y  70. N  71. Y  72. N  73. Y  74. N  75. Y  76. N  77. Y  78. N  79. Y  80. N  81. Y  82. N  83. Y  84. N  85. Y  86. N  87. Y  88. N  89. Y  90. N  91. Y  92. N  93. Y  94. N  95. Y  96. N  97. Y  98. N  99. Y  100. N  101. Y  102. N  103. Y  104. N  105. Y  106. N  107. Y  108. N  109. Y  110. N  111. Y  112. N  113. Y  114. N  115. Y  116. N  117. Y  118. N  119. Y  120. N  121. Y  122. N  123. Y  124. N  125. Y  126. N  127. Y  128. N  129. Y  130. N  131. Y  132. N  133. Y  134. N  135. Y  136. N  137. Y  138. N  139. Y  140. N  141. Y  142. N  143. Y  144. N  145. Y  146. N  147. Y  148. N  149. Y  150. N  151. Y  152. N  153. Y  154. N  155. Y  156. N  157. Y  158. N  159. Y  160. N  161. Y  162. N  163. Y  164. N  165. Y  166. N  167. Y  168. N  169. Y  170. N  171. Y  172. N  173. Y  174. N  175. Y  176. N  177. Y  178. N  179. Y  180. N  181. Y  182. N  183. Y  184. N  185. Y  186. N  187. Y  188. N  189. Y  190. N  191. Y  192. N  193. Y  194. N  195. Y  196. N  197. Y  198. N  199. Y  200. N  201. Y  202. N  203. Y  204. N  205. Y  206. N  207. Y  208. N  209. Y  210. N  211. Y  212. N  213. Y  214. N  215. Y  216. N  217. Y  218. N  219. Y  220. N  221. Y  222. N  223. Y  224. N  225. Y  226. N  227. Y  228. N  229. Y  230. N  231. Y  232. N  233. Y  234. N  235. Y  236. N  237. Y  238. N  239. Y  240. N  241. Y  242. N  243. Y  244. N  245. Y  246. N  247. Y  248. N  249. Y  250. N  251. Y  252. N  253. Y  254. N  255. Y  256. N  257. Y  258. N  259. Y  260. N  261. Y  262. N  263. Y  264. N  265. Y  266. N  267. Y  268. N  269. Y  270. N  271. Y  272. N  273. Y  274. N  275. Y  276. N  277. Y  278. N  279. Y  280. N  281. Y  282. N  283. Y  284. N  285. Y  286. N  287. Y  288. N  289. Y  290. N  291. Y  292. N  293. Y  294. N  295. Y  296. N  297. Y  298. N  299. Y  300. N  301. Y  302. N  303. Y  304. N  305. Y  306. N  307. Y  308. N  309. Y  310. N  311. Y  312. N  313. Y  314. N  315. Y  316. N  317. Y  318. N  319. Y  320. N  321. Y  322. N  323. Y  324. N  325. Y  326. N  327. Y  328. N  329. Y  330. N  331. Y  332. N  333. Y  334. N  335. Y  336. N  337. Y  338. N  339. Y  340. N  341. Y  342. N  343. Y  344. N  345. Y  346. N  347. Y  348. N  349. Y  350. N  351. Y  352. N  353. Y  354. N  355. Y  356. N  357. Y  358. N  359. Y  360. N  361. Y  362. N  363. Y  364. N  365. Y  366. N  367. Y  368. N  369. Y  370. N  371. Y  372. N  373. Y  374. N  375. Y  376. N  377. Y  378. N  379. Y  380. N  381. Y  382. N  383. Y  384. N  385. Y  386. N  387. Y  388. N  389. Y  390. N  391. Y  392. N  393. Y  394. N  395. Y  396. N  397. Y  398. N  399. Y  400. N  401. Y  402. N  403. Y  404. N  405. Y  406. N  407. Y  408. N  409. Y  410. N  411. Y  412. N  413. Y  414. N  415. Y  416. N  417. Y  418. N  419. Y  420. N  421. Y  422. N  423. Y  424. N  425. Y  426. N  427. Y  428. N  429. Y  430. N  431. Y  432. N  433. Y  434. N  435. Y  436. N  437. Y  438. N  439. Y  440. N  441. Y  442. N  443. Y  444. N  445. Y  446. N  447. Y  448. N  449. Y  450. N  451. Y  452. N  453. Y  454. N  455. Y  456. N  457. Y  458. N  459. Y  460. N  461. Y  462. N  463. Y  464. N  465. Y  466. N  467. Y  468. N  469. Y  470. N  471. Y  472. N  473. Y  474. N  475. Y  476. N  477. Y  478. N  479. Y  480. N  481. Y  482. N  483. Y  484. N  485. Y  486. N  487. Y  488. N  489. Y  490. N  491. Y  492. N  493. Y  494. N  495. Y  496. N  497. Y  498. N  499. Y  500. N  501. Y  502. N  503. Y  504. N  505. Y  506. N  507. Y  508. N  509. Y  510. N  511. Y  512. N  513. Y  514. N  515. Y  516. N  517. Y  518. N  519. Y  520. N  521. Y  522. N  523. Y  524. N  525. Y  526. N  527. Y  528. N  529. Y  530. N  531. Y  532. N  533. Y  534. N  535. Y  536. N  537. Y  538. N  539. Y  540. N  541. Y  542. N  543. Y  544. N  545. Y  546. N  547. Y  548. N  549. Y  550. N  551. Y  552. N  553. Y  554. N  555. Y  556. N  557. Y  558. N  559. Y  560. N  561. Y  562. N  563. Y  564. N  565. Y  566. N  567. Y  568. N  569. Y  570. N  571. Y  572. N  573. Y  574. N  575. Y  576. N  577. Y  578. N  579. Y  580. N  581. Y  582. N  583. Y  584. N  585. Y  586. N  587. Y  588. N  589. Y  590. N  591. Y  592. N  593. Y  594. N  595. Y  596. N  597. Y  598. N  599. Y  600. N  601. Y  602. N  603. Y  604. N  605. Y  606. N  607. Y  608. N  609. Y  610. N  611. Y  612. N  613. Y  614. N  615. Y  616. N  617. Y  618. N  619. Y  620. N  621. Y  622. N  623. Y  624. N  625. Y  626. N  627. Y  628. N  629. Y  630. N  631. Y  632. N  633. Y  634. N  635. Y  636. N  637. Y  638. N  639. Y  640. N  641. Y  642. N  643. Y  644. N  645. Y  646. N  647. Y  648. N  649. Y  650. N  651. Y  652. N  653. Y  654. N  655. Y  656. N  657. Y  658. N  659. Y  660. N  661. Y  662. N  663. Y  664. N  665. Y  666. N  667. Y  668. N  669. Y  670. N  671. Y  672. N  673. Y  674. N  675. Y  676. N  677. Y  678. N  679. Y  680. N  681. Y  682. N  683. Y  684. N  685. Y  686. N  687. Y  688. N  689. Y  690. N  691. Y  692. N  693. Y  694. N  695. Y  696. N  697. Y  698. N  699. Y  700. N  701. Y  702. N  703. Y  704. N  705. Y  706. N  707. Y  708. N  709. Y  710. N  711. Y  712. N  713. Y  714. N  715. Y  716. N  717. Y  718. N  719. Y  720. N  721. Y  722. N  723. Y  724. N  725. Y  726. N  727. Y  728. N  729. Y  730. N  731. Y  732. N  733. Y  734. N  735. Y  736. N  737. Y  738. N  739. Y  740. N  741. Y  742. N  743. Y  744. N  745. Y  746. N  747. Y  748. N  749. Y  750. N  751. Y  752. N  753. Y  754. N  755. Y  756. N  757. Y  758. N  759. Y  760. N  761. Y  762. N  763. Y  764. N  765. Y  766. N  767. Y  768. N  769. Y  770. N  771. Y  772. N  773. Y  774. N  775. Y  776. N  777. Y  778. N  779. Y  780. N  781. Y  782. N  783. Y  784. N  785. Y  786. N  787. Y  788. N  789. Y  790. N  791. Y  792. N  793. Y  794. N  795. Y  796. N  797. Y  798. N  799. Y  800. N  801. Y  802. N  803. Y  804. N  805. Y  806. N  807. Y  808. N  809. Y  810. N  811. Y  812. N  813. Y  814. N  815. Y  816. N  817. Y  818. N  819. Y  820. N  821. Y  822. N  823. Y  824. N  825. Y  826. N  827. Y  828. N  829. Y  830. N  831. Y  832. N  833. Y  834. N  835. Y  836. N  837. Y  838. N  839. Y  840. N  841. Y  842. N  843. Y  844. N  845. Y  846. N  847. Y  848. N  849. Y  850. N  851. Y  852. N  853. Y  854. N  855. Y  856. N  857. Y  858. N  859. Y  860. N  861. Y  862. N  863. Y  864. N  865. Y  866. N  867. Y  868. N  869. Y  870. N  871. Y  872. N  873. Y  874. N  875. Y  876. N  877. Y  878. N  879. Y  880. N  881. Y  882. N  883. Y  884. N  885. Y  886. N  887. Y  888. N  889. Y  890. N  891. Y  892. N  893. Y  894. N  895. Y  896. N  897. Y  898. N  899. Y  900. N  901. Y  902. N  903. Y  904. N  905. Y  906. N  907. Y  908. N  909. Y  910. N  911. Y  912. N  913. Y  914. N  915. Y  916. N  917. Y  918. N  919. Y  920. N  921. Y  922. N  923. Y  924. N  925. Y  926. N  927. Y  928. N  929. Y  930. N  931. Y  932. N  933. Y  934. N  935. Y  936. N  937. Y  938. N  939. Y  940. N  941. Y  942. N  943. Y  944. N  945. Y  946. N  947. Y  948. N  949. Y  950. N  951. Y  952. N  953. Y  954. N  955. Y  956. N  957. Y  958. N  959. Y  960. N  961. Y  962. N  963. Y  964. N  965. Y  966. N  967. Y  968. N  969. Y  970. N  971. Y  972. N  973. Y  974. N  975. Y  976. N  977. Y  978. N  979. Y  980. N  981. Y  982. N  983. Y  984. N  985. Y  986. N  987. Y  988. N  989. Y  990. N  991. Y  992. N  993. Y  994. N  995. Y  996. N  997. Y  998. N  999. Y  1000. N  1001. Y  1002. N  1003. Y  1004. N  1005. Y  1006. N  1007. Y  1008. N  1009. Y  1010. N  1011. Y  1012. N <



# CHAIN OF CUSTODY RECORD

## FOR LABORATORY USE ONLY:

**Advanced Technology Laboratories, Inc.**  
 3151-3153 W. Post Rd.  
 Las Vegas, NV 89118  
 Tel: (702) 307-2659 • Fax: (702) 307-2691

P.O.# \_\_\_\_\_  
 Logged By: \_\_\_\_\_ Date: \_\_\_\_\_

Method of Transport:  Client  ATL INC  FEDEX  Other: \_\_\_\_\_  
 Sample Condition Upon Receipt: 1. CHILLED  Y  N  4. SEALED  Y  N   
 2. HEADSPACE (NOA)  Y  N  5. # OF SPLS MATCH COC  Y  N   
 3. CONTAINER INTACT  Y  N  6. PRESERVED  Y  N

TEL: ( ) \_\_\_\_\_ FAX: ( ) \_\_\_\_\_  
 Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Project #: **LVBE007** Sampler: \_\_\_\_\_ (Printed Name) **JUSTIN FIRE**  
 Relinquished by: (Signature and Printed name) **Justin Fire** Date: **11-7-13** Time: **1400** Received by: (Signature and Printed name) **Dawn Cal DeVin** Date: **11-7-13** Time: **1400**  
 Relinquished by: (Signature and Printed name) **Dawn Cal DeVin** Date: **11-7-13** Time: **1900** Received by: (Signature and Printed name) **Dawn Cal DeVin** Date: **11-8-13** Time: **8:30**  
 Relinquished by: (Signature and Printed name) **Dawn Cal DeVin** Date: **11-8-13** Time: **1025** Received by: (Signature and Printed name) **Mrs. ...** Date: **11/8/13** Time: **1025**

I hereby authorize ATL INC to perform the work indicated below:  
 Project Mgr/Submitter: **Spot Batenburg** Date: **11/13**  
 Attn: **Spot Batenburg**  
 Co: **MGA**  
 Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Bill To: \_\_\_\_\_  
 Attn: **SAME**  
 Co: \_\_\_\_\_  
 Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Special Instructions/Comments: \_\_\_\_\_  
 Circle or Add Analysis(es) Requested: \_\_\_\_\_  
 RCRA8 (60108/700) \_\_\_\_\_  
 8015B (DRO) (Motor Oil/Oil) \_\_\_\_\_  
 8015B (GRO) \_\_\_\_\_  
 8260B (BTEX) (MTBE) \_\_\_\_\_  
 8260B (NOC) \_\_\_\_\_

LAB USE ONLY: Batch #:	Sample Description	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX		PRESERVATION	Q A / Q C	REMARKS
					Container(s)	TAT # Type			
1101416-11	SB2-S-10-3	SB2-S-10-3	11/6/13	1617					
-12	SB2-S-10-4	SB2-S-10-4	11/7/13	0810					
-13	SB2-S-15-1	SB2-S-15-1	11/7/13	0813					
-14	SB2-S-15-2	SB2-S-15-2	11/7/13	0820					
-15	SB2-S-15-3	SB2-S-15-3	11/7/13	0820					
-16	SB2-S-15-4	SB2-S-15-4	11/7/13	0820					
-17	SB2-S-20-1	SB2-S-20-1	11/7/13	0820					
-18	SB2-S-20-2	SB2-S-20-2	11/7/13	0830					
-19	SB2-S-20-3	SB2-S-20-3	11/7/13	0833					
-20	SB2-S-20-4	SB2-S-20-4	11/7/13	0833					

Sample/Records-Archival & Disposal  
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.  
 Storage Fees (applies when storage is requested):  
 • Sample : \$ 2.00 / sample / mo (after 45 days)  
 • Records : \$ 1.00 / ATL workorder / mo (after 1 year)

TAT:  A= Overnight  B= Emergency Next workday  C= Critical 2 Workdays  D= Urgent 3 Workdays  E= Routine 7 Workdays  
 Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Becllar G=Glass P=Plastic M=Metal  
 Preservatives: H=HCl N=HNO3 S=H2SO4 C=4°C Z=Zn(Ac)2 O=NaOH T=Na2S2O3

\*TAT starts 8 a.m. following day if samples received after 3 p.m.

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter

LENDORE



# CHAIN OF CUSTODY RECORD

## FOR LABORATORY USE ONLY:

**Advanced Technology Laboratories, Inc.**  
 3151-3153 W. Post Rd.  
 Las Vegas, NV 89118  
 Tel: (702) 307-2659 • Fax: (702) 307-2691

**Client:** \_\_\_\_\_  
**Attn:** \_\_\_\_\_  
**Project Name:** LVBEC007  
**Project #:** LVBEC007  
**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip Code:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
**TEL:** ( ) \_\_\_\_\_ **FAX:** ( ) \_\_\_\_\_

**Method of Transport:** Chilled  
 Client  N  4. SEALED  Y  N   
 ATL INC  ICE 12#  
 FEDEX  5. # OF SPLS MATCH COC  Y  N   
 Other: \_\_\_\_\_  
 3. CONTAINER INTACT  Y  N  6. PRESERVED  Y  N

**Sample Condition Upon Receipt:**  
 1. CHILLED  Y  N  4. SEALED  Y  N   
 2. HEADSPACE (VOA)  Y  N  5. # OF SPLS MATCH COC  Y  N   
 3. CONTAINER INTACT  Y  N  6. PRESERVED  Y  N

**Method of Transport:**  Client  N  4. SEALED  Y  N   
 ATL INC  ICE 12#  
 FEDEX  5. # OF SPLS MATCH COC  Y  N   
 Other: \_\_\_\_\_  
 3. CONTAINER INTACT  Y  N  6. PRESERVED  Y  N

**Relinquished by:** (Signature and Printed name) Jody Taylor Date: 11-7-13 Time: 1400 Received by: (Signature and Printed name) Drew Gato Date: 11-7-13 Time: 1400  
**Relinquished by:** (Signature and Printed name) Drew Gato Date: 11-7-13 Time: 1400 Received by: (Signature and Printed name) Justin Fife Date: 11-8-13 Time: 8:30  
**Relinquished by:** (Signature and Printed name) Justin Fife Date: 11-8-13 Time: 8:30 Received by: (Signature and Printed name) Justin Fife Date: 11-8-13 Time: 10:25

I hereby authorize ATL INC to perform the work indicated below:  
**Project Mgr/Submitter:** Brett Borenberg Date: 11/6/13  
**Attn:** Brett Borenberg  
**Co:** MGA  
**Address:** \_\_\_\_\_  
**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

**Bill To:** \_\_\_\_\_  
**Attn:** SAMG  
**Co:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

**Special Instructions/Comments:** \_\_\_\_\_

**Sample/Records-Archival & Disposal**  
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.  
**Storage Fees** (applies when storage is requested):  
 • Sample : \$ 2.00 / sample / mo (after 45 days)  
 • Records : \$ 1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Sample Description	Sample I.D. / Location	Date	Time
Batch #:				
Lab No.				
<u>N011416-21</u>	<u>SB3-5-5-1</u>		<u>11/7/13</u>	<u>0942</u>
<u>-22</u>	<u>SB3-5-5-2</u>		<u>0944</u>	
<u>-23</u>	<u>SB3-5-5-3</u>		<u>0946</u>	
<u>-24</u>	<u>SB3-5-5-4</u>		<u>0948</u>	
<u>-25</u>	<u>SB4-5-4-1</u>		<u>0957</u>	
<u>-26</u>	<u>SB4-5-4-2</u>		<u>0958</u>	
<u>-27</u>	<u>SB4-5-4-3</u>		<u>1001</u>	
<u>-28</u>	<u>SB4-5-4-4</u>		<u>1001</u>	

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				PRESERVATION	QA/QC
	SOIL	WATER	GROUND WATER	WASTEWATER		
8260B (VOC)	X				3 B	RTNE <input type="checkbox"/> CT <input type="checkbox"/>
8260B (BTEX), (MTBE)	X				3 B	RWOCB <input type="checkbox"/> LEVEL IV <input type="checkbox"/>
8015B (GRO)		X			1 JG	OTHER _____
8015B (DRO), (MOTR OIL/RO)		X			1 JG	REMARKS
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X			1 JG	
8015B (DRO), (MOTR OIL/RO)		X			1 JG	
RCRA8 (60108/700)			X		3 B	
8260B (VOC)		X			3 B	
8015B (GRO)		X				

# Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 11/8/2013 Workorder: N011416  
 Rep sample Temp (Deg C): -0.8 IR Gun ID: 2  
 Temp Blank:  Yes  No  
 Carrier name: Client  
 Last 4 digits of Tracking No.: NA Packing Material Used: None  
 Cooling process:  Ice  Ice Pack  Dry Ice  Other  None

## Sample Receipt Checklist

- |   |   |                             |   |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| 2. Custody seals intact, signed, dated on shipping container/cooler?                    | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| 3. Custody seals intact on sample bottles?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 5. Sampler's name present in COC?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 6. Chain of custody signed when relinquished and received?                              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 7. Chain of custody agrees with sample labels?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 8. Samples in proper container/bottle?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 9. Sample containers intact?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 10. Sufficient sample volume for indicated test?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 11. All samples received within holding time?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 12. Temperature of rep sample or Temp Blank within acceptable limit?                    | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/>                     |
| 13. Water - VOA vials have zero headspace?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 14. Water - pH acceptable upon receipt?<br>Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 15. Did the bottle labels indicate correct preservatives used?                          | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 16. Were there Non-Conformance issues at login?<br>Was Client notified?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
|   | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |

Comments:

Checklist Completed By: MBC for: [Signature] 11/11/2013

Reviewed By: [Signature]



# **APPENDIX G**

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## **Chain-of-Custody Records and Analytical Reports for Surface Soil Samples**

November 15, 2013

Brett Bottenberg  
Mc.Ginley and Associates  
6280 S. Valley View Blvd. Suite 604  
Las Vegas, NV 89118

TEL: (702) 260-4961  
FAX: (702) 260-4968

CA-ELAP No.:2676  
NV Cert. No.:NV-009222007A

Workorder No.: N011415

RE: PPG INDUSTRIES, LVBEC007

Attention: Brett Bottenberg

Enclosed are the results for sample(s) received on November 08, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

for 

Jose Tenorio Jr.  
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



**Advanced Technology  
Laboratories, Inc.**

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**CLIENT:** Mc.Ginley and Associates  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab Order:** N011415

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**CASE NARRATIVE**

**SAMPLE RECEIVING/GENERAL COMMENTS:**

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

**Analytical Comments for EPA 6010B:**

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Silver possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

**Analytical Comments for EPA 8015B\_DRO/ORO:**

RPD for Matrix Spike(MS) and Matrix Spike Duplicate(MSD) is outside criteria ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

**Analytical Comments for EPA 8260B:**

Surrogates Toluene-d8, 4-Bromofluorobenzene recoveries were below the laboratory acceptable limit for N011415-001 possibly due to matrix interference. Reanalysis confirms low recovery caused by matrix effect.



**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS1-S-0.25-1
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/6/2013 3:00:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-001		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,1,1-Trichloroethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,1,2,2-Tetrachloroethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,1,2-Trichloroethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,1-Dichloroethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,1-Dichloroethene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,1-Dichloropropene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,2,3-Trichlorobenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,2,3-Trichloropropane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,2,4-Trichlorobenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,2,4-Trimethylbenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg	1	11/11/2013 05:04 PM		
1,2-Dibromoethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,2-Dichlorobenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,2-Dichloroethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,2-Dichloropropane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,3,5-Trimethylbenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,3-Dichlorobenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,3-Dichloropropane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
1,4-Dichlorobenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
2,2-Dichloropropane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
2-Chlorotoluene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
4-Chlorotoluene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
4-Isopropyltoluene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Benzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Bromobenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Bromodichloromethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Bromoform	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Bromomethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Carbon tetrachloride	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Chlorobenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Chloroethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Chloroform	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Chloromethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
cis-1,2-Dichloroethene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
cis-1,3-Dichloropropene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**Advanced Technology Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS1-S-0.25-1
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/6/2013 3:00:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-001		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Dibromomethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Dichlorodifluoromethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Ethylbenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Hexachlorobutadiene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Isopropylbenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
m,p-Xylene	ND	10	µg/Kg	1	11/11/2013 05:04 PM		
Methylene chloride	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
MTBE	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
n-Butylbenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
n-Propylbenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Naphthalene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
o-Xylene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
sec-Butylbenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Styrene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
tert-Butylbenzene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Tetrachloroethene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Toluene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
trans-1,2-Dichloroethene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Trichloroethene	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Trichlorofluoromethane	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Vinyl chloride	ND	5.1	µg/Kg	1	11/11/2013 05:04 PM		
Surr: 1,2-Dichloroethane-d4	106	63-139	%REC	1	11/11/2013 05:04 PM		
Surr: 4-Bromofluorobenzene	64.9	75-124	S %REC	1	11/11/2013 05:04 PM		
Surr: Dibromofluoromethane	96.6	70-133	%REC	1	11/11/2013 05:04 PM		
Surr: Toluene-d8	78.7	80-123	S %REC	1	11/11/2013 05:04 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**Advanced Technology Laboratories, Inc.**

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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011415  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011415-002

**Client Sample ID:** SS1-S-0.25-2  
**Collection Date:** 11/6/2013 3:05:00 PM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B**

RunID: GC4_131112A	QC Batch: R91157	PrepDate: 11/8/2013	Analyst: <b>PN</b>		
GRO	ND	0.97	mg/Kg	1	11/12/2013 01:11 PM
Surr: Chlorobenzene - d5	68.2	51-136	%REC	1	11/12/2013 01:11 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS1-S-0.25-3
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/6/2013 3:10:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-003		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	11000	100		mg/Kg	10	11/12/2013 11:18 AM
ORO	21000	100		mg/Kg	10	11/12/2013 11:18 AM
Surr: p-Terphenyl	77.5	52-175		%REC	10	11/12/2013 11:18 AM

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS1-S-0.25-4
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/6/2013 3:10:00 PM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-004		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**MERCURY BY COLD VAPOR TECHNIQUE**

**EPA 7471**

**EPA 7471A**

RunID: AA1_131112A	QC Batch: 44352			PrepDate: 11/12/2013	Analyst: LCC
Mercury	ND	0.10	mg/Kg	1	11/12/2013

**ICP METALS**

**EPA 3050B**

**EPA 6010B**

RunID: ICP2_131113A	QC Batch: 44330			PrepDate: 11/8/2013	Analyst: JAA
Arsenic	21	1.0	mg/Kg	1	11/13/2013 11:38 AM
Barium	24	1.0	mg/Kg	1	11/13/2013 11:38 AM
Cadmium	ND	1.0	mg/Kg	1	11/13/2013 11:38 AM
Chromium	2.2	1.0	mg/Kg	1	11/13/2013 11:38 AM
Lead	22	1.0	mg/Kg	1	11/13/2013 11:38 AM
Selenium	ND	1.0	mg/Kg	1	11/13/2013 11:38 AM
Silver	ND	1.0	mg/Kg	1	11/13/2013 11:38 AM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**Advanced Technology  
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**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011415  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011415-005

**Client Sample ID:** SS2-S-0.25-1  
**Collection Date:** 11/7/2013 8:45:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,1,1-Trichloroethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,1,2-Trichloroethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,1-Dichloroethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,1-Dichloroethene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,1-Dichloropropene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,2,3-Trichloropropane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg	1	11/11/2013 02:32 PM		
1,2-Dibromoethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,2-Dichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,2-Dichloroethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,2-Dichloropropane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,3-Dichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,3-Dichloropropane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
1,4-Dichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
2,2-Dichloropropane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
2-Chlorotoluene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
4-Chlorotoluene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
4-Isopropyltoluene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Benzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Bromobenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Bromodichloromethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Bromoform	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Bromomethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Carbon tetrachloride	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Chlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Chloroethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Chloroform	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Chloromethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



**Advanced Technology  
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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS2-S-0.25-1
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 8:45:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-005		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Dibromomethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Ethylbenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Hexachlorobutadiene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Isopropylbenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
m,p-Xylene	ND	10	µg/Kg	1	11/11/2013 02:32 PM		
Methylene chloride	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
MTBE	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
n-Butylbenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
n-Propylbenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Naphthalene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
o-Xylene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
sec-Butylbenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Styrene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
tert-Butylbenzene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Tetrachloroethene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Toluene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Trichloroethene	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Trichlorofluoromethane	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Vinyl chloride	ND	5.0	µg/Kg	1	11/11/2013 02:32 PM		
Surr: 1,2-Dichloroethane-d4	96.0	63-139	%REC	1	11/11/2013 02:32 PM		
Surr: 4-Bromofluorobenzene	87.4	75-124	%REC	1	11/11/2013 02:32 PM		
Surr: Dibromofluoromethane	97.1	70-133	%REC	1	11/11/2013 02:32 PM		
Surr: Toluene-d8	99.4	80-123	%REC	1	11/11/2013 02:32 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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ANALYTICAL RESULTS

Print Date: 15-Nov-13

CLIENT: Mc.Ginley and Associates
Lab Order: N011415
Project: PPG INDUSTRIES, LVBEC007
Lab ID: N011415-006

Client Sample ID: SS2-S-0.25-2
Collection Date: 11/7/2013 8:47:00 AM
Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4\_131112A QC Batch: R91157 PrepDate: 11/8/2013 Analyst: PN
GRO ND 0.94 mg/Kg 1 11/12/2013 11:17 AM
Surr: Chlorobenzene - d5 98.3 51-136 %REC 1 11/12/2013 11:17 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011415  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011415-007

**Client Sample ID:** SS2-S-0.25-3  
**Collection Date:** 11/7/2013 8:50:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	29	10		mg/Kg	1	11/11/2013 07:02 PM
ORO	40	10		mg/Kg	1	11/11/2013 07:02 PM
Surr: p-Terphenyl	73.9	52-175		%REC	1	11/11/2013 07:02 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS2-S-0.25-4
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 8:50:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-008		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**MERCURY BY COLD VAPOR TECHNIQUE**

**EPA 7471**

**EPA 7471A**

RunID: AA1_131112A	QC Batch: 44352			PrepDate: 11/12/2013	Analyst: LCC
Mercury	ND	0.10	mg/Kg	1	11/12/2013

**ICP METALS**

**EPA 3050B**

**EPA 6010B**

RunID: ICP2_131113A	QC Batch: 44330			PrepDate: 11/8/2013	Analyst: JAA
Arsenic	3.6	1.0	mg/Kg	1	11/13/2013 12:21 PM
Barium	32	1.0	mg/Kg	1	11/13/2013 12:21 PM
Cadmium	ND	1.0	mg/Kg	1	11/13/2013 12:21 PM
Chromium	2.5	1.0	mg/Kg	1	11/13/2013 12:21 PM
Lead	11	1.0	mg/Kg	1	11/13/2013 12:21 PM
Selenium	ND	1.0	mg/Kg	1	11/13/2013 12:21 PM
Silver	ND	1.0	mg/Kg	1	11/13/2013 12:21 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS3-S-0-1
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 10:20:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-009		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,1,1-Trichloroethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,1,2,2-Tetrachloroethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,1,2-Trichloroethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,1-Dichloroethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,1-Dichloroethene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,1-Dichloropropene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,2,3-Trichlorobenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,2,3-Trichloropropane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,2,4-Trichlorobenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,2,4-Trimethylbenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,2-Dibromo-3-chloropropane	ND	12	µg/Kg	1	11/11/2013 02:54 PM		
1,2-Dibromoethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,2-Dichlorobenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,2-Dichloroethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,2-Dichloropropane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,3,5-Trimethylbenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,3-Dichlorobenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,3-Dichloropropane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
1,4-Dichlorobenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
2,2-Dichloropropane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
2-Chlorotoluene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
4-Chlorotoluene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
4-Isopropyltoluene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Benzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Bromobenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Bromodichloromethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Bromoform	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Bromomethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Carbon tetrachloride	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Chlorobenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Chloroethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Chloroform	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Chloromethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
cis-1,2-Dichloroethene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
cis-1,3-Dichloropropene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS3-S-0-1
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 10:20:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-009		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Dibromomethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Dichlorodifluoromethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Ethylbenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Hexachlorobutadiene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Isopropylbenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
m,p-Xylene	ND	12	µg/Kg	1	11/11/2013 02:54 PM		
Methylene chloride	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
MTBE	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
n-Butylbenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
n-Propylbenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Naphthalene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
o-Xylene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
sec-Butylbenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Styrene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
tert-Butylbenzene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Tetrachloroethene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Toluene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
trans-1,2-Dichloroethene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Trichloroethene	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Trichlorofluoromethane	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Vinyl chloride	ND	5.8	µg/Kg	1	11/11/2013 02:54 PM		
Surr: 1,2-Dichloroethane-d4	105	63-139	%REC	1	11/11/2013 02:54 PM		
Surr: 4-Bromofluorobenzene	86.3	75-124	%REC	1	11/11/2013 02:54 PM		
Surr: Dibromofluoromethane	95.5	70-133	%REC	1	11/11/2013 02:54 PM		
Surr: Toluene-d8	98.5	80-123	%REC	1	11/11/2013 02:54 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS3-S-0-2
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 10:27:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-010		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GASOLINE RANGE ORGANICS BY GC/FID</b>						
				<b>EPA 8015B</b>		
RunID: GC4_131112A	QC Batch: R91157			PrepDate: 11/8/2013		Analyst: <b>PN</b>
GRO	ND	1.2		mg/Kg	1	11/12/2013 11:45 AM
Surr: Chlorobenzene - d5	96.8	51-136		%REC	1	11/12/2013 11:45 AM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**Advanced Technology  
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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N011415  
**Project:** PPG INDUSTRIES, LVBEC007  
**Lab ID:** N011415-011

**Client Sample ID:** SS3-S-0-3  
**Collection Date:** 11/7/2013 10:30:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	18	10		mg/Kg	1	11/11/2013 07:28 PM
ORO	28	10		mg/Kg	1	11/11/2013 07:28 PM
Surr: p-Terphenyl	86.0	52-175		%REC	1	11/11/2013 07:28 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



**Advanced Technology  
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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS3-S-0-4
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 10:30:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-012		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471</b>			<b>EPA 7471A</b>			
RunID: AA1_131112A	QC Batch: 44352			PrepDate: 11/12/2013		Analyst: LCC
Mercury	ND	0.10		mg/Kg	1	11/12/2013
<b>ICP METALS</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: ICP2_131113A	QC Batch: 44330			PrepDate: 11/8/2013		Analyst: JAA
Arsenic	3.9	1.0		mg/Kg	1	11/13/2013 12:28 PM
Barium	24	1.0		mg/Kg	1	11/13/2013 12:28 PM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 12:28 PM
Chromium	2.3	1.0		mg/Kg	1	11/13/2013 12:28 PM
Lead	18	1.0		mg/Kg	1	11/13/2013 12:28 PM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 12:28 PM
Silver	ND	1.0		mg/Kg	1	11/13/2013 12:28 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS4-S-0-1
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 10:40:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-013		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,1,1-Trichloroethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,1,2,2-Tetrachloroethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,1,2-Trichloroethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,1-Dichloroethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,1-Dichloroethene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,1-Dichloropropene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,2,3-Trichlorobenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,2,3-Trichloropropane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,2,4-Trichlorobenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,2,4-Trimethylbenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,2-Dibromo-3-chloropropane	ND	11	µg/Kg	1	11/11/2013 03:16 PM		
1,2-Dibromoethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,2-Dichlorobenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,2-Dichloroethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,2-Dichloropropane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,3,5-Trimethylbenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,3-Dichlorobenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,3-Dichloropropane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
1,4-Dichlorobenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
2,2-Dichloropropane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
2-Chlorotoluene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
4-Chlorotoluene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
4-Isopropyltoluene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Benzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Bromobenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Bromodichloromethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Bromoform	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Bromomethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Carbon tetrachloride	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Chlorobenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Chloroethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Chloroform	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Chloromethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
cis-1,2-Dichloroethene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
cis-1,3-Dichloropropene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS4-S-0-1
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 10:40:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-013		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
Dibromochloromethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Dibromomethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Dichlorodifluoromethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Ethylbenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Hexachlorobutadiene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Isopropylbenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
m,p-Xylene	ND	11	µg/Kg	1	11/11/2013 03:16 PM		
Methylene chloride	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
MTBE	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
n-Butylbenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
n-Propylbenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Naphthalene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
o-Xylene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
sec-Butylbenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Styrene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
tert-Butylbenzene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Tetrachloroethene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Toluene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
trans-1,2-Dichloroethene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Trichloroethene	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Trichlorofluoromethane	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Vinyl chloride	ND	5.6	µg/Kg	1	11/11/2013 03:16 PM		
Surr: 1,2-Dichloroethane-d4	106	63-139	%REC	1	11/11/2013 03:16 PM		
Surr: 4-Bromofluorobenzene	87.7	75-124	%REC	1	11/11/2013 03:16 PM		
Surr: Dibromofluoromethane	97.9	70-133	%REC	1	11/11/2013 03:16 PM		
Surr: Toluene-d8	101	80-123	%REC	1	11/11/2013 03:16 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS4-S-0-2
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 10:42:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-014		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GASOLINE RANGE ORGANICS BY GC/FID</b>						
				<b>EPA 8015B</b>		
RunID: GC4_131112A	QC Batch: R91157			PrepDate: 11/8/2013		Analyst: <b>PN</b>
GRO	ND	1.0		mg/Kg	1	11/12/2013 12:43 PM
Surr: Chlorobenzene - d5	92.1	51-136		%REC	1	11/12/2013 12:43 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS4-S-0-3
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 10:45:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-015		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	ND	10		mg/Kg	1	11/11/2013 07:53 PM
ORO	ND	10		mg/Kg	1	11/11/2013 07:53 PM
Surr: p-Terphenyl	86.7	52-175		%REC	1	11/11/2013 07:53 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS4-S-0-4
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 10:45:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-016		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471</b>			<b>EPA 7471A</b>			
RunID: AA1_131112A	QC Batch: 44352			PrepDate: 11/12/2013		Analyst: LCC
Mercury	ND	0.099		mg/Kg	1	11/12/2013
<b>ICP METALS</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: ICP2_131113A	QC Batch: 44330			PrepDate: 11/8/2013		Analyst: JAA
Arsenic	2.3	1.0		mg/Kg	1	11/13/2013 12:35 PM
Barium	21	1.0		mg/Kg	1	11/13/2013 12:35 PM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 12:35 PM
Chromium	1.2	1.0		mg/Kg	1	11/13/2013 12:35 PM
Lead	3.8	1.0		mg/Kg	1	11/13/2013 12:35 PM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 12:35 PM
Silver	ND	1.0		mg/Kg	1	11/13/2013 12:35 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS5-S-0.25-1
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 10:55:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-017		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS6_131111A	QC Batch:	Q13VS025	PrepDate:	11/8/2013	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,1,1-Trichloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,1,2-Trichloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,1-Dichloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,1-Dichloroethene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,1-Dichloropropene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,2,3-Trichloropropane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg	1	11/11/2013 03:38 PM		
1,2-Dibromoethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,2-Dichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,2-Dichloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,2-Dichloropropane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,3-Dichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,3-Dichloropropane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
1,4-Dichlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
2,2-Dichloropropane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
2-Chlorotoluene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
4-Chlorotoluene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
4-Isopropyltoluene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
Benzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
Bromobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
Bromodichloromethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
Bromoform	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
Bromomethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
Carbon tetrachloride	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
Chlorobenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
Chloroethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
Chloroform	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
Chloromethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM		

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS5-S-0.25-1
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 10:55:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-017		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS6_131111A	QC Batch: Q13VS025	PrepDate: 11/8/2013	Analyst: QBM		
Dibromochloromethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Dibromomethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Ethylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Hexachlorobutadiene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Isopropylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
m,p-Xylene	ND	10	µg/Kg	1	11/11/2013 03:38 PM
Methylene chloride	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
MTBE	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
n-Butylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
n-Propylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Naphthalene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
o-Xylene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
sec-Butylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Styrene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
tert-Butylbenzene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Tetrachloroethene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Toluene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Trichloroethene	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Trichlorofluoromethane	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Vinyl chloride	ND	5.0	µg/Kg	1	11/11/2013 03:38 PM
Surr: 1,2-Dichloroethane-d4	104	63-139	%REC	1	11/11/2013 03:38 PM
Surr: 4-Bromofluorobenzene	87.1	75-124	%REC	1	11/11/2013 03:38 PM
Surr: Dibromofluoromethane	87.7	70-133	%REC	1	11/11/2013 03:38 PM
Surr: Toluene-d8	101	80-123	%REC	1	11/11/2013 03:38 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS5-S-0.25-2
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 10:57:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-018		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GASOLINE RANGE ORGANICS BY GC/FID</b>						
				<b>EPA 8015B</b>		
RunID: GC4_131112A	QC Batch: R91157			PrepDate: 11/8/2013		Analyst: <b>PN</b>
GRO	ND	1.0		mg/Kg	1	11/12/2013 12:14 PM
Surr: Chlorobenzene - d5	97.0	51-136		%REC	1	11/12/2013 12:14 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**Advanced Technology Laboratories, Inc.**

**ANALYTICAL RESULTS**

Print Date: 15-Nov-13

<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS5-S-0.25-3
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 11:00:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-019		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
	<b>EPA 3550B</b>			<b>EPA 8015B</b>		
RunID: GC1_131111A	QC Batch: 44345			PrepDate: 11/11/2013		Analyst: <b>MDM</b>
DRO	20	10		mg/Kg	1	11/11/2013 08:19 PM
ORO	31	10		mg/Kg	1	11/11/2013 08:19 PM
Surr: p-Terphenyl	77.7	52-175		%REC	1	11/11/2013 08:19 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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<b>CLIENT:</b>	Mc.Ginley and Associates	<b>Client Sample ID:</b>	SS5-S-0.25-4
<b>Lab Order:</b>	N011415	<b>Collection Date:</b>	11/7/2013 11:00:00 AM
<b>Project:</b>	PPG INDUSTRIES, LVBEC007	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N011415-020		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471</b>			<b>EPA 7471A</b>			
RunID: AA1_131112A	QC Batch: 44352			PrepDate: 11/12/2013		Analyst: LCC
Mercury	ND	0.10		mg/Kg	1	11/12/2013
<b>ICP METALS</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: ICP2_131113A	QC Batch: 44330			PrepDate: 11/8/2013		Analyst: JAA
Arsenic	3.7	1.0		mg/Kg	1	11/13/2013 12:42 PM
Barium	40	1.0		mg/Kg	1	11/13/2013 12:42 PM
Cadmium	ND	1.0		mg/Kg	1	11/13/2013 12:42 PM
Chromium	1.9	1.0		mg/Kg	1	11/13/2013 12:42 PM
Lead	3.9	1.0		mg/Kg	1	11/13/2013 12:42 PM
Selenium	ND	1.0		mg/Kg	1	11/13/2013 12:42 PM
Silver	ND	1.0		mg/Kg	1	11/13/2013 12:42 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011415  
**Project:** PPG INDUSTRIES, LVBEC007

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 6010\_S**

Sample ID: <b>MB-44330</b>	SampType: <b>MBLK</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>PBS</b>	Batch ID: <b>44330</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684171</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									
Barium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Lead	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									

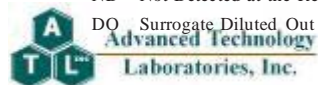
Sample ID: <b>LCS-44330</b>	SampType: <b>LCS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>44330</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684172</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	26.066	1.0	25.00	0	104	80	120				
Barium	26.069	1.0	25.00	0	104	80	120				
Cadmium	25.186	1.0	25.00	0	101	80	120				
Chromium	25.780	1.0	25.00	0	103	80	120				
Lead	26.335	1.0	25.00	0	105	80	120				
Selenium	23.367	1.0	25.00	0	93.5	80	120				
Silver	22.528	1.0	25.00	0	90.1	80	120				

Sample ID: <b>N011415-004A-MS</b>	SampType: <b>MS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44330</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684178</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	47.741	1.0	24.99	20.80	108	75	125				
Barium	49.156	1.0	24.99	24.06	100	75	125				
Cadmium	23.221	1.0	24.99	0	92.9	75	125				
Chromium	25.802	1.0	24.99	2.212	94.4	75	125				

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011415  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010\_S**

Sample ID: <b>N011415-004A-MS</b>	SampType: <b>MS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44330</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684178</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	45.978	1.0	24.99	21.80	96.8	75	125				
Selenium	22.496	1.0	24.99	0	90.0	75	125				
Silver	18.668	1.0	24.99	0	74.7	75	125				S

Sample ID: <b>N011415-004A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/8/2013</b>	RunNo: <b>91176</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44330</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/13/2013</b>	SeqNo: <b>1684179</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	45.430	1.0	24.95	20.80	98.7	75	125	47.74	4.96	20	
Barium	45.082	1.0	24.95	24.06	84.2	75	125	49.16	8.65	20	
Cadmium	22.605	1.0	24.95	0	90.6	75	125	23.22	2.69	20	
Chromium	25.028	1.0	24.95	2.212	91.4	75	125	25.80	3.04	20	
Lead	41.589	1.0	24.95	21.80	79.3	75	125	45.98	10.0	20	
Selenium	21.733	1.0	24.95	0	87.1	75	125	22.50	3.45	20	
Silver	18.407	1.0	24.95	0	73.8	75	125	18.67	1.41	20	S

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011415  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 7471\_S**

Sample ID: <b>LCS-44352</b>	SampType: <b>LCS</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/12/2013</b>	RunNo: <b>91140</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>44352</b>	TestNo: <b>EPA 7471A</b>	<b>EPA 7471</b>	Analysis Date: <b>11/12/2013</b>	SeqNo: <b>1681939</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.426	0.10	0.4230	0	101	80	120				
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Sample ID: <b>MB-44352</b>	SampType: <b>MBLK</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/12/2013</b>	RunNo: <b>91140</b>						
Client ID: <b>PBS</b>	Batch ID: <b>44352</b>	TestNo: <b>EPA 7471A</b>	<b>EPA 7471</b>	Analysis Date: <b>11/12/2013</b>	SeqNo: <b>1681940</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	ND	0.10									
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Sample ID: <b>N011415-004A-MS</b>	SampType: <b>MS</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/12/2013</b>	RunNo: <b>91140</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44352</b>	TestNo: <b>EPA 7471A</b>	<b>EPA 7471</b>	Analysis Date: <b>11/12/2013</b>	SeqNo: <b>1681942</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

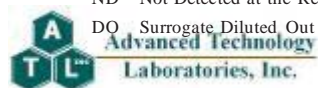
Mercury	0.429	0.10	0.4202	0.01030	99.7	75	125				
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Sample ID: <b>N011415-004A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/12/2013</b>	RunNo: <b>91140</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44352</b>	TestNo: <b>EPA 7471A</b>	<b>EPA 7471</b>	Analysis Date: <b>11/12/2013</b>	SeqNo: <b>1681943</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.434	0.10	0.4181	0.01030	101	75	125	0.4291	1.17	20	
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**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
- Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011415  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_DM H**

Sample ID: <b>LCS-44345</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_DM H</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/11/2013</b>	RunNo: <b>91126</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>44345</b>	TestNo: <b>EPA 8015B EPA 3550B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681312</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	899.809	10	1000	0	90.0	65	119				
Surr: p-Terphenyl	81.987		80.00		102	52	175				

Sample ID: <b>MB-44345</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_DM H</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/11/2013</b>	RunNo: <b>91126</b>						
Client ID: <b>PBS</b>	Batch ID: <b>44345</b>	TestNo: <b>EPA 8015B EPA 3550B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681313</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	7.956	10									
ORO	4.826	10									
Surr: p-Terphenyl	72.516		80.00		90.6	52	175				

Sample ID: <b>N011401-003A-MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_S_DM H</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/11/2013</b>	RunNo: <b>91126</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44345</b>	TestNo: <b>EPA 8015B EPA 3550B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1681335</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

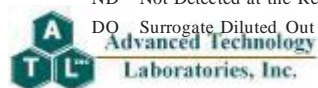
DRO	518.121	10	1010	25.98	48.7	32	171				
Surr: p-Terphenyl	66.584		80.81		82.4	52	175				

Sample ID: <b>N011401-003A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_S_DM H</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/11/2013</b>	RunNo: <b>91126</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44345</b>	TestNo: <b>EPA 8015B EPA 3550B</b>		Analysis Date: <b>11/12/2013</b>	SeqNo: <b>1681336</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	806.239	10	999.0	25.98	78.1	32	171	518.1	43.5	20	R
Surr: p-Terphenyl	70.422		79.92		88.1	52	175		0		

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011415  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131111LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682661</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	39.540	5.0	40.00	0	98.8	80	123				
1,1,1-Trichloroethane	39.570	5.0	40.00	0	98.9	71	127				
1,1,2,2-Tetrachloroethane	41.430	5.0	40.00	0	104	80	120				
1,1,2-Trichloroethane	40.820	5.0	40.00	0	102	80	120				
1,1-Dichloroethane	40.550	5.0	40.00	0	101	80	120				
1,1-Dichloroethene	39.430	5.0	40.00	0	98.6	80	121				
1,1-Dichloropropene	39.840	5.0	40.00	0	99.6	74	131				
1,2,3-Trichlorobenzene	39.690	5.0	40.00	0	99.2	64	137				
1,2,3-Trichloropropane	40.300	5.0	40.00	0	101	75	120				
1,2,4-Trichlorobenzene	39.020	5.0	40.00	0	97.6	75	128				
1,2,4-Trimethylbenzene	40.300	5.0	40.00	0	101	73	128				
1,2-Dibromo-3-chloropropane	44.080	10	40.00	0	110	53	143				
1,2-Dibromoethane	39.690	5.0	40.00	0	99.2	74	124				
1,2-Dichlorobenzene	38.260	5.0	40.00	0	95.7	80	120				
1,2-Dichloroethane	40.200	5.0	40.00	0	101	70	139				
1,2-Dichloropropane	40.070	5.0	40.00	0	100	80	120				
1,3,5-Trimethylbenzene	40.570	5.0	40.00	0	101	76	126				
1,3-Dichlorobenzene	38.570	5.0	40.00	0	96.4	80	120				
1,3-Dichloropropane	41.400	5.0	40.00	0	104	80	120				
1,4-Dichlorobenzene	38.280	5.0	40.00	0	95.7	80	120				
2,2-Dichloropropane	40.250	5.0	40.00	0	101	72	135				
2-Chlorotoluene	40.020	5.0	40.00	0	100	79	120				
4-Chlorotoluene	39.760	5.0	40.00	0	99.4	80	120				
4-Isopropyltoluene	40.070	5.0	40.00	0	100	76	126				
Benzene	39.950	5.0	40.00	0	99.9	80	120				
Bromobenzene	38.850	5.0	40.00	0	97.1	80	120				
Bromodichloromethane	40.530	5.0	40.00	0	101	79	131				
Bromoform	41.800	5.0	40.00	0	104	80	120				
Bromomethane	38.790	5.0	40.00	0	97.0	43	179				
Carbon tetrachloride	39.740	5.0	40.00	0	99.4	80	125				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011415  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131111LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682661</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	38.580	5.0	40.00	0	96.5	80	120				
Chloroethane	39.900	5.0	40.00	0	99.8	32	181				
Chloroform	38.710	5.0	40.00	0	96.8	77	129				
Chloromethane	39.640	5.0	40.00	0	99.1	80	120				
cis-1,2-Dichloroethene	39.530	5.0	40.00	0	98.8	80	120				
cis-1,3-Dichloropropene	42.210	5.0	40.00	0	106	80	120				
Dibromochloromethane	41.190	5.0	40.00	0	103	80	122				
Dibromomethane	41.180	5.0	40.00	0	103	80	120				
Dichlorodifluoromethane	39.750	5.0	40.00	0	99.4	64	135				
Ethylbenzene	40.290	5.0	40.00	0	101	80	120				
Hexachlorobutadiene	38.320	5.0	40.00	0	95.8	69	132				
Isopropylbenzene	40.500	5.0	40.00	0	101	79	121				
m,p-Xylene	80.770	10	80.00	0	101	80	121				
Methylene chloride	37.420	5.0	40.00	0	93.6	74	123				
MTBE	38.200	5.0	40.00	0	95.5	56	140				
n-Butylbenzene	41.480	5.0	40.00	0	104	72	131				
n-Propylbenzene	40.930	5.0	40.00	0	102	79	122				
Naphthalene	42.910	5.0	40.00	0	107	69	126				
o-Xylene	39.890	5.0	40.00	0	99.7	80	120				
sec-Butylbenzene	40.520	5.0	40.00	0	101	74	127				
Styrene	40.760	5.0	40.00	0	102	80	120				
tert-Butylbenzene	39.690	5.0	40.00	0	99.2	75	125				
Tetrachloroethene	39.960	5.0	40.00	0	99.9	80	120				
Toluene	39.110	5.0	40.00	0	97.8	80	120				
trans-1,2-Dichloroethene	40.730	5.0	40.00	0	102	80	125				
Trichloroethene	38.060	5.0	40.00	0	95.2	80	120				
Trichlorofluoromethane	40.050	5.0	40.00	0	100	67	152				
Vinyl chloride	41.850	5.0	40.00	0	105	69	135				
Surr: 1,2-Dichloroethane-d4	50.450		50.00		101	63	139				
Surr: 4-Bromofluorobenzene	48.670		50.00		97.3	75	124				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          |  |  |
| Calculations are based on raw values              |  |  |



**Advanced Technology  
 Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011415  
**Project:** PPG INDUSTRIES, LVBE007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131111LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682661</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	49.610		50.00		99.2	70	133				
Surr: Toluene-d8	50.140		50.00		100	80	123				

Sample ID: <b>Q131111LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682662</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	40.270	5.0	40.00	0	101	80	123	39.54	1.83	20	
1,1,1-Trichloroethane	41.630	5.0	40.00	0	104	71	127	39.57	5.07	20	
1,1,2,2-Tetrachloroethane	43.150	5.0	40.00	0	108	80	120	41.43	4.07	20	
1,1,2-Trichloroethane	42.190	5.0	40.00	0	105	80	120	40.82	3.30	20	
1,1-Dichloroethane	42.420	5.0	40.00	0	106	80	120	40.55	4.51	20	
1,1-Dichloroethene	40.510	5.0	40.00	0	101	80	121	39.43	2.70	20	
1,1-Dichloropropene	40.780	5.0	40.00	0	102	74	131	39.84	2.33	20	
1,2,3-Trichlorobenzene	41.240	5.0	40.00	0	103	64	137	39.69	3.83	20	
1,2,3-Trichloropropane	41.920	5.0	40.00	0	105	75	120	40.30	3.94	20	
1,2,4-Trichlorobenzene	40.930	5.0	40.00	0	102	75	128	39.02	4.78	20	
1,2,4-Trimethylbenzene	42.490	5.0	40.00	0	106	73	128	40.30	5.29	20	
1,2-Dibromo-3-chloropropane	43.790	10	40.00	0	109	53	143	44.08	0.660	20	
1,2-Dibromoethane	40.670	5.0	40.00	0	102	74	124	39.69	2.44	20	
1,2-Dichlorobenzene	39.930	5.0	40.00	0	99.8	80	120	38.26	4.27	20	
1,2-Dichloroethane	40.690	5.0	40.00	0	102	70	139	40.20	1.21	20	
1,2-Dichloropropane	41.250	5.0	40.00	0	103	80	120	40.07	2.90	20	
1,3,5-Trimethylbenzene	42.610	5.0	40.00	0	107	76	126	40.57	4.91	20	
1,3-Dichlorobenzene	41.120	5.0	40.00	0	103	80	120	38.57	6.40	20	
1,3-Dichloropropane	42.720	5.0	40.00	0	107	80	120	41.40	3.14	20	
1,4-Dichlorobenzene	39.470	5.0	40.00	0	98.7	80	120	38.28	3.06	20	
2,2-Dichloropropane	41.790	5.0	40.00	0	104	72	135	40.25	3.75	20	
2-Chlorotoluene	42.330	5.0	40.00	0	106	79	120	40.02	5.61	20	
4-Chlorotoluene	42.110	5.0	40.00	0	105	80	120	39.76	5.74	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**Advanced Technology  
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Mc.Ginley and Associates  
 Work Order: N011415  
 Project: PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8260ENC5035

Sample ID: Q131111LCSD	SampType: LCSD	TestCode: 8260ENC5035	Units: µg/Kg	Prep Date:	RunNo: 91150						
Client ID: LCSS02	Batch ID: Q13VS025	TestNo: EPA 8260B		Analysis Date: 11/11/2013	SeqNo: 1682662						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	42.560	5.0	40.00	0	106	76	126	40.07	6.03	20	
Benzene	41.220	5.0	40.00	0	103	80	120	39.95	3.13	20	
Bromobenzene	41.260	5.0	40.00	0	103	80	120	38.85	6.02	20	
Bromodichloromethane	40.090	5.0	40.00	0	100	79	131	40.53	1.09	20	
Bromoform	42.030	5.0	40.00	0	105	80	120	41.80	0.549	20	
Bromomethane	40.580	5.0	40.00	0	101	43	179	38.79	4.51	20	
Carbon tetrachloride	41.080	5.0	40.00	0	103	80	125	39.74	3.32	20	
Chlorobenzene	39.930	5.0	40.00	0	99.8	80	120	38.58	3.44	20	
Chloroethane	41.870	5.0	40.00	0	105	32	181	39.90	4.82	20	
Chloroform	41.420	5.0	40.00	0	104	77	129	38.71	6.76	20	
Chloromethane	41.210	5.0	40.00	0	103	80	120	39.64	3.88	20	
cis-1,2-Dichloroethene	42.240	5.0	40.00	0	106	80	120	39.53	6.63	20	
cis-1,3-Dichloropropene	41.570	5.0	40.00	0	104	80	120	42.21	1.53	20	
Dibromochloromethane	42.840	5.0	40.00	0	107	80	122	41.19	3.93	20	
Dibromomethane	42.480	5.0	40.00	0	106	80	120	41.18	3.11	20	
Dichlorodifluoromethane	42.430	5.0	40.00	0	106	64	135	39.75	6.52	20	
Ethylbenzene	41.870	5.0	40.00	0	105	80	120	40.29	3.85	20	
Hexachlorobutadiene	39.510	5.0	40.00	0	98.8	69	132	38.32	3.06	20	
Isopropylbenzene	42.880	5.0	40.00	0	107	79	121	40.50	5.71	20	
m,p-Xylene	83.630	10	80.00	0	105	80	121	80.77	3.48	20	
Methylene chloride	38.950	5.0	40.00	0	97.4	74	123	37.42	4.01	20	
MTBE	39.920	5.0	40.00	0	99.8	56	140	38.20	4.40	20	
n-Butylbenzene	44.220	5.0	40.00	0	111	72	131	41.48	6.39	20	
n-Propylbenzene	43.460	5.0	40.00	0	109	79	122	40.93	6.00	20	
Naphthalene	44.430	5.0	40.00	0	111	69	126	42.91	3.48	20	
o-Xylene	41.410	5.0	40.00	0	104	80	120	39.89	3.74	20	
sec-Butylbenzene	42.580	5.0	40.00	0	106	74	127	40.52	4.96	20	
Styrene	42.190	5.0	40.00	0	105	80	120	40.76	3.45	20	
tert-Butylbenzene	41.870	5.0	40.00	0	105	75	125	39.69	5.35	20	
Tetrachloroethene	40.550	5.0	40.00	0	101	80	120	39.96	1.47	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          |  |  |
| Calculations are based on raw values              |  |  |



**Advanced Technology  
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011415  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

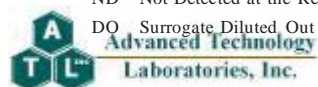
**TestCode: 8260ENC5035**

Sample ID: <b>Q131111LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682662</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	39.730	5.0	40.00	0	99.3	80	120	39.11	1.57	20	
trans-1,2-Dichloroethene	42.270	5.0	40.00	0	106	80	125	40.73	3.71	20	
Trichloroethene	39.070	5.0	40.00	0	97.7	80	120	38.06	2.62	20	
Trichlorofluoromethane	40.460	5.0	40.00	0	101	67	152	40.05	1.02	20	
Vinyl chloride	43.530	5.0	40.00	0	109	69	135	41.85	3.94	20	
Surr: 1,2-Dichloroethane-d4	52.320		50.00		105	63	139		0		
Surr: 4-Bromofluorobenzene	50.760		50.00		102	75	124		0		
Surr: Dibromofluoromethane	51.450		50.00		103	70	133		0		
Surr: Toluene-d8	51.170		50.00		102	80	123		0		

Sample ID: <b>Q131111MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682663</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011415  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131111MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682663</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
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| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N011415  
**Project:** PPG INDUSTRIES, LVBEC007

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260ENC5035**

Sample ID: <b>Q131111MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260ENC5035</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>91150</b>						
Client ID: <b>PBS</b>	Batch ID: <b>Q13VS025</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>11/11/2013</b>	SeqNo: <b>1682663</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	49.820		50.00		99.6	63	139				
Surr: 4-Bromofluorobenzene	45.400		50.00		90.8	75	124				
Surr: Dibromofluoromethane	49.340		50.00		98.7	70	133				
Surr: Toluene-d8	51.380		50.00		103	80	123				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**Advanced Technology  
 Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691



# CHAIN OF CUSTODY RECORD

## FOR LABORATORY USE ONLY:

**Advanced Technology Laboratories, Inc.**  
 3151-3153 W. Post Rd.  
 Las Vegas, NV 89118  
 Tel: (702) 307-2659 • Fax: (702) 307-2691

P.O.# \_\_\_\_\_  
 Logged By: ASG Date: 11/8/13

Method of Transport:  Client  Sample Condition Upon Receipt  
 ATL INC  4. SEALED Y  N   
 FEDEX  5. # OF SPLS MATCH COC Y  N   
 Other: \_\_\_\_\_ 3. CONTAINER INTACT Y  N  6. PRESERVED Y  N

Project #: LVBC 007 State: NV Zip Code: 89118 TEL: (702) 260-4961  
 Address: 6250 S. Verrill Ave. #604 FAX: (702) 260-4968

Relinquished by: (Signature and Printed name) Brett Botenberg Date: 11-7-13 Time: 1900 Received by: (Signature and Printed name) Danny Gagan Date: 11-8-13 Time: 830  
 Relinquished by: (Signature and Printed name) Danny Gagan Date: 11-8-13 Time: 1025 Received by: (Signature and Printed name) ASG Date: 11/8/13 Time: 1025  
 Relinquished by: (Signature and Printed name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

I hereby authorize ATL INC to perform the work indicated below:  
 Project Mgr/Submitter: Brett Botenberg Date: 11/8/13  
 Project Name: PPG INSURANCE

Bill To: \_\_\_\_\_  
 Attn: Same  
 Co: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Special Instructions/Comments:  
bottenberg@mcgin.com

LAB USE ONLY: Batch #:	Sample Description	Sample I.D. / Location		Date	Time
		Sample I.D.	Location		
1		SS1-S-0.25-1		11-6-13	15:00
2		SS1-S-0.25-2		11-6-13	15:05
3		SS1-S-0.25-3		11-6-13	15:10
4		SS1-S-0.25-4		11-7-13	08:45
5		SS2-S-0.25-1		11-7-13	08:47
6		SS2-S-0.25-2		11-7-13	08:50
7		SS2-S-0.25-3		11-7-13	08:50
8		SS2-S-0.25-4		11-7-13	10:20
9		SS3-S-0-1		11-7-13	10:24
10		SS3-S-0-2		11-7-13	10:24

LAB USE ONLY: Batch #:	Sample Description	Sample I.D. / Location		Date	Time
		Sample I.D.	Location		
1		SS1-S-0.25-1		11-6-13	15:00
2		SS1-S-0.25-2		11-6-13	15:05
3		SS1-S-0.25-3		11-6-13	15:10
4		SS1-S-0.25-4		11-7-13	08:45
5		SS2-S-0.25-1		11-7-13	08:47
6		SS2-S-0.25-2		11-7-13	08:50
7		SS2-S-0.25-3		11-7-13	08:50
8		SS2-S-0.25-4		11-7-13	10:20
9		SS3-S-0-1		11-7-13	10:24
10		SS3-S-0-2		11-7-13	10:24

LAB USE ONLY: Batch #:	Sample Description	Sample I.D. / Location		Date	Time
		Sample I.D.	Location		
1		SS1-S-0.25-1		11-6-13	15:00
2		SS1-S-0.25-2		11-6-13	15:05
3		SS1-S-0.25-3		11-6-13	15:10
4		SS1-S-0.25-4		11-7-13	08:45
5		SS2-S-0.25-1		11-7-13	08:47
6		SS2-S-0.25-2		11-7-13	08:50
7		SS2-S-0.25-3		11-7-13	08:50
8		SS2-S-0.25-4		11-7-13	10:20
9		SS3-S-0-1		11-7-13	10:24
10		SS3-S-0-2		11-7-13	10:24

LAB USE ONLY: Batch #:	Sample Description	Sample I.D. / Location		Date	Time
		Sample I.D.	Location		
1		SS1-S-0.25-1		11-6-13	15:00
2		SS1-S-0.25-2		11-6-13	15:05
3		SS1-S-0.25-3		11-6-13	15:10
4		SS1-S-0.25-4		11-7-13	08:45
5		SS2-S-0.25-1		11-7-13	08:47
6		SS2-S-0.25-2		11-7-13	08:50
7		SS2-S-0.25-3		11-7-13	08:50
8		SS2-S-0.25-4		11-7-13	10:20
9		SS3-S-0-1		11-7-13	10:24
10		SS3-S-0-2		11-7-13	10:24

TAT:  A= Overnight  B= Next workday  C= Critical  D= Urgent  E= Routine  
 ≤ 24 hr  2 Workdays  3 Workdays  7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Bedlar G=Glass P=Plastic M=Metal  
 Preservatives: H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(Ac)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter



# CHAIN OF CUSTODY RECORD

## FOR LABORATORY USE ONLY:

**Advanced Technology Laboratories, Inc.**  
 3151-3153 W. Post Rd.  
 Las Vegas, NV 89118  
 Tel: (702) 307-2659 • Fax: (702) 307-2691

P.O.# \_\_\_\_\_  
 Logged By: \_\_\_\_\_ Date: \_\_\_\_\_

**Method of Transport**  
 Client  
 ATL INC  
 FEDEX  
 Other: \_\_\_\_\_

**Sample Condition Upon Receipt**  
 1. CHILLED  Y  N  4. SEALED  Y  N  
 2. HEADSPACE (VOA)  Y  N  5. # OF SPLS MATCH COC  Y  N  
 3. CONTAINER INTACT  Y  N  6. PRESERVED  Y  N

TEL: ( ) \_\_\_\_\_  
 FAX: ( ) \_\_\_\_\_

Project #: **LVBEC007**  
 State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Sampler: \_\_\_\_\_ (Printed Name)  
 \_\_\_\_\_ (Signature)

Relinquished by: (Signature and Printed name) **Devin Gordon** Date: **11-13-13** Time: **8:30**  
 Relinquished by: (Signature and Printed name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: (Signature and Printed name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Bill To: \_\_\_\_\_  
 Attn: **SAMP**  
 Co: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Special Instructions/Comments: \_\_\_\_\_

Send Report To: **BRETT BOTTENSKY**  
 Attn: **MGA**  
 Co: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

I hereby authorize ATL INC to perform the work indicated below:  
 Project Mgr/Submitter: **BRETT BOTTENSKY** 11/13/13  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Sample/Records-Archival & Disposal**  
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.  
 Storage Fees (applies when storage is requested):  
 • Sample : \$ 2.00 / sample / mo (after 45 days)  
 • Records : \$ 1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch #:	Lab No.	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX		PRESERVATION	Q A / Q C	REMARKS
					Container(s)	TAT #			
NO14C-11	553-5-0-3	11-7-13	10:30						
-12	553-5-0-4	10:30							
-13	554-5-0-1	10:40							
-14	554-5-0-2	10:42							
-15	554-5-0-3	10:45							
-16	554-5-0-4	10:45							
-17	555-5-0.25-1	10:55							
-18	555-5-0.25-2	10:57							
-19	555-5-0.25-3	11:00							
-20	555-5-0.25-4	11:00							

Circle or Add Analysis(es) Requested:  
 8260B (NOC)  8015B (GRO)  8015B (DRO) (Motor Oil/ORO)  RCRA8 (6010B/700)  SOIL  WATER  GROUND WATER  WASTEWATER

Preservatives:  
 H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

Routine  D=7 Workdays  
 Urgent  D=3 Workdays  
 Critical  C=2 Workdays  
 Emergency  B=Next workday

Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Bedlar G=Glass P=Plastic M=Metal

TAT:  A=Overnight ≤ 24 hr  
 B=Emergency Next workday

•TAT starts 8 a.m. following day if samples received after 3 p.m.

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter

→ ENCORE

# Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 11/8/2013 Workorder: N011415  
 Rep sample Temp (Deg C): - 0.8 IR Gun ID: 2  
 Temp Blank:  Yes  No  
 Carrier name: Client  
 Last 4 digits of Tracking No.: NA Packing Material Used: None  
 Cooling process:  Ice  Ice Pack  Dry Ice  Other  None

### Sample Receipt Checklist

- |   |   |                             |   |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| 2. Custody seals intact, signed, dated on shipping container/cooler?                    | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| 3. Custody seals intact on sample bottles?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 5. Sampler's name present in COC?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 6. Chain of custody signed when relinquished and received?                              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 7. Chain of custody agrees with sample labels?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 8. Samples in proper container/bottle?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 9. Sample containers intact?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 10. Sufficient sample volume for indicated test?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 11. All samples received within holding time?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 12. Temperature of rep sample or Temp Blank within acceptable limit?                    | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/>                     |
| 13. Water - VOA vials have zero headspace?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 14. Water - pH acceptable upon receipt?<br>Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 15. Did the bottle labels indicate correct preservatives used?                          | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 16. Were there Non-Conformance issues at login?<br>Was Client notified?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
|   | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |

Comments:

Checklist Completed By: MBC for:  11/11/2013

Reviewed By: 

# **APPENDIX H**

## **ICEHS UST Removal Requirements**

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INYO COUNTY ENVIRONMENTAL HEALTH SERVICES

P.O. Box 427

Independence, CA 93526

Telephones: (760) 878-0238, Independence; (760) 873-7865, Bishop

APPLICATION/PERMIT for the REMOVAL/ABANDONMENT of

UNDERGROUND HAZARDOUS MATERIALS STORAGE TANK

Permit Fee: 600 gals or less: \$ [REDACTED]

Over 600 gals: \$ [REDACTED]

Tank #: I-\_\_\_\_ Permit# \_\_\_\_\_

Amount Received: \_\_\_\_\_

Receipt Number: \_\_\_\_\_

Date Paid: \_\_\_\_\_

In or on the premises: \_\_\_\_\_

OWNER:

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ Phone: \_\_\_\_\_

OPERATOR:

Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ Phone: \_\_\_\_\_

NAMES/ADDRESS OF CONTRACTORS: (Please fill in the back of this form)

Past use of tank: \_\_\_\_\_

Materials stored in tank: \_\_\_\_\_

Tank volume: \_\_\_\_\_ Tank material (i.e. steel, concrete, etc.) \_\_\_\_\_

Secondary containment (if any): \_\_\_\_\_ Estimated depth to groundwater: \_\_\_\_\_ ft.

Piping to be removed (describe): \_\_\_\_\_

Disposal location of tank contents (if any): \_\_\_\_\_

Disposal of rinseate from decontamination process (if any): \_\_\_\_\_

Disposition of abandoned tank and pipe: \_\_\_\_\_

Clean-up operation proposed: \_\_\_\_\_

You are to notify this office at least 48 hours before work begins. If work is to be done within City of Bishop, you must advise Bishop Public Works Department at 873-8458 48 hours in advance.

By approval of this permit, Environmental Health Services assumes no liability for handling or transport of this tank. Note: This permit is valid for one year from date of approval.

Permit approved by: \_\_\_\_\_, E.H. Specialist Date: \_\_\_\_\_

Applicant's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Finalization of permit: \_\_\_\_\_, Director Date: \_\_\_\_\_

CONTRACTORS:

1. For pulling tank (backhoe operator, excavation, etc.)

Company: \_\_\_\_\_ Lic.# \_\_\_\_\_ Contact: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Phone: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

2. For tank decontamination:

Company: \_\_\_\_\_ Lic.# \_\_\_\_\_ Contact: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Phone: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

3. Hauler (transporter of tank, piping, contaminated soil):

Company: \_\_\_\_\_ Lic.# \_\_\_\_\_ Contact: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Phone: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

4. Is the tank being filled in place? If so, fill in below:

Company: \_\_\_\_\_ Lic.# \_\_\_\_\_ Contact: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Phone: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

5. Laboratory: \_\_\_\_\_ Phone: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ DHS Cert.# \_\_\_\_\_  
Analysis Requested: \_\_\_\_\_

Additional Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





COUNTY OF INYO  
ENVIRONMENTAL HEALTH SERVICES  
P.O. Box 427  
INDEPENDENCE, CALIFORNIA 93526

UNDERGROUND STORAGE TANK  
CLOSURE POLICY

(Pursuant to Chapter 6.7, Division 20  
of the Health and Safety Code)

(Rev. 7/92)

State regulations allow underground storage tank systems to be closed either by removal or by abandoning in place. Tank systems are abandoned in place by filling the tanks and piping with an inert material and capping with cement. Inyo County Environmental Health advises that all tanks and their associated piping be removed for the following reasons:

1. With the tank system out of the ground, it allows the inspectors and responsible parties to view the excavation for any signs of contamination. A field survey instrument can assist in determining if any contamination is present.
2. It allows the entire tank to be examined for any obvious holes and, possibly, how they occurred (i.e. corrosion, improper installation, etc.).
3. To close the tank and piping in place, the tank and piping will still have to be decontaminated, soil samples obtained, and if contamination exists, the tank will ultimately have to be removed.
4. It decreases long-term liability and future real estate snags when the tank is removed according to code, with proper assessments performed at that time.

Only in those instances where tank removal may lead to structural failure or increased health and safety risk to workers or the public will consideration be given to abandoning the tank in place.

APPLICATION

A Permit Application to Remove/Abandon must be returned completed with appropriate fees to this department. Fees are noted on the Permit Application and on the attached Fee Schedule. A Site Safety Plan and State Water Resources Control Board (SWRCB) "A" and "B" forms must also be submitted. We require 15 working days for Permit review. If approved, a copy of the signed approved Permit Application will be returned to the applicant. This copy serves as their permit to begin work.

We require a minimum of 48 hours notification prior to beginning work. It is the responsibility of the applicant to contact other departments and take out appropriate permits. We are not responsible for shut-down of work by other agencies. (See Attachment A, Notification Requirements.)



Relatively self-explanatory. Note the following:

Page 1 of Permit Application -

1. County Tank ID number and Tank Operating Permit Number must appear on the Permit Application.
2. Past use of tank - We are concerned if any hazardous material other than gasoline or diesel fuel have ever been stored in this tank. If leaded gasoline has been stored in the past, soil samples will also be analyzed for organic lead.
3. Piping to be removed - All piping must be rinsed back into tank and either removed and disposed of with the tank or filled and capped with cement.
4. Disposal of tank contents - Must be disposed of in an appropriate manner (i.e., licensed hauler, hand-pumped and put into another tank with compatible material).
5. Disposal of rinseate - NOTE: All tanks and piping MUST be triple rinsed or decontaminated to be accepted by Earl Brown, American Metal Recyclers, etc. If tank and piping are removed without decontaminating, it cannot go to either of these places and must be manifested out of County by a licensed hazardous waste hauler to an approved treatment, storage, or disposal facility (TSDF).

All rinseate must be shipped to a licensed TSDF. The applicant must get an EPA number to do this (see Attachment A), which must be noted on the permit. The Decontamination Services will be addressed later in this policy. After decontamination, and at least four hours prior to pull, dry ice (15 lbs. per 1,000 gallons) must be added to tank.

6. Disposition of tank and piping - If triple rinsed, may be taken to Earl Brown (\$100.00 per tank as of 12/1/90, see Attachment A), American Metal Recyclers, or any approved TSDF. If not triple rinsed, the tank must be transported as a hazardous waste and taken to a licensed TSDF.
7. Clean-up operation proposed - This can be included in the Site Safety Plan if preferred. Permit applicant must address how job will proceed if contamination is encountered. This includes: on-site assessment, transportation and disposition of any contaminated soil, personal protective equipment which may be required, etc. If new tanks are to be installed, permit applicant must understand job may be significantly delayed if they need to address clean-up operations. If contaminated soil is transported to the Sunland Landfill for aeration, the permittee maintains responsibility for that soil until it has been aerated to acceptable levels, which is determined through laboratory analysis.
8. Finalization of permit - Permit will be finalized when this Department has received and approved all soil sampling results, any soil taken to the Sunland Landfill for aeration has been aerated to acceptable levels as determined by laboratory analysis, Forms "A" and "B" have been completed and returned, and copies of manifests or at least the manifest numbers have been submitted.

Contractors - Provide license numbers for all contractors.

9. For pulling tank - Only contractors possessing a C-36, C-61-D-40, or a General Engineering A contractor's license may remove or close a tank in place. The California State Contractors Licensing Board may be contacted for verification.
10. For tank decontamination - Must have proper license to perform decontamination and must be licensed as a hazardous waste hauler to transport rinseate. A copy of the manifest must be submitted to this department.
11. Hauler - Once decontamination and tanks and piping declared non-hazardous by this Department, anyone may haul tanks and piping to an approved location. If contaminated soil is found to be less than 1000 ppm total petroleum hydrocarbons (TPH), anyone may haul it to Sunland as a "non-hazardous" or "designated" waste. If soil is greater than 1000 TPH, only a licensed hazardous waste hauler may transport it to a licensed TSDF. According to the proposed variance, soil greater than 1000 ppm TPH is not allowed at Sunland. (This may be waived on a case-by-case basis by approval of the Director.) A copy of the manifest or the number must be submitted to this Department.

NOTE: It is the responsibility of the permittee to pay for all laboratory tests and associated sampling materials for any tank closure. Any proposed closing-in-place of tank systems must be approved by the Director on a case-by-case basis.



SITE SAFETY PLAN REVIEW

NOTE:

- \_\_\_ Adequate fencing surrounding excavation during working hours and off hours (6 foot minimum). Plastic mesh is acceptable.
- \_\_\_ Slope and/or shoring of excavation.
- \_\_\_ Cal-OSHA permit for excavations greater than 5 feet when workers plan on entering excavation. Shall meet 2-to-1 OSHA requirements or shoring will be required.
- \_\_\_ Proper signs (i.e., No Smoking, Hard Hat Area, etc.).
- \_\_\_ Adequate first aid on-site with emergency numbers handy.
- \_\_\_ Personal protective equipment (i.e., hard hats, respirators if necessary, etc.).
- \_\_\_ Describe all pre-closure and ongoing site safety meetings planned.
- \_\_\_ Other equipment (i.e., OVA, LEL meters).
- \_\_\_ Location of all electrical and utility conduits. Notification of USA.
- \_\_\_ Eliminate all potential ignition sources.
- \_\_\_ Traffic control.
- \_\_\_ Benzene emission control plan.
- \_\_\_ Overall contingency plan.

Attachment A

INYO COUNTY ENVIRONMENTAL HEALTH SERVICES  
P.O. BOX 427  
INDEPENDENCE, CALIFORNIA 93526

Underground Storage Tank  
Safety and Notification Requirements

48-hour notice prior to initiation of work unless parking or roads will be affected; then 14-day notice is required.

YOU ARE REQUIRED TO NOTIFY THE FOLLOWING:

County of Inyo

Underground Service Alert.....1-(800)-422-4133  
Building and Safety: South County.....878-2411  
                                  North County.....873-7857  
Sheriff's Department.....873-2441  
Air Pollution Control District.....872-8211  
Local Fire Department

City of Bishop

Underground Service Alert.....1-(800)-422-4133  
Public Works.....873-8458  
Police Department.....873-5866  
Air Pollution Control District.....872-8211  
Bishop Fire Department.....873-5485

Other

CalTrans (Encroachment Permits).....872-0674  
Cal-OSHA.....(805)-395-2718  
Brown's Supply.....872-6911  
EPA (to obtain EPA #).....(916)-324-1781

A site safety plan must be submitted with permit for all construction, repairs/ modifications, and closures.

FEE SCHEDULE  
AND REQUIRED INSPECTIONS

The fee schedule is as follows:

Tanks 600 gallons or less.....	\$ [REDACTED]
Tanks greater than 600 gallons.....	\$ [REDACTED]
Site Safety Plan check and/or preclosure inspection (per hour)..	\$ [REDACTED]
Extended time inspections (per hour).....	\$ [REDACTED]

The Site Safety Plan Check fee provides for the following Initial Site Inspection. An office meeting may be substituted.

INITIAL SITE INSPECTION

Note any potential hazards (i.e., overhead lines, confined work space). Any potential hazards should be addressed in the Site Safety Plan. All underground conduits (water lines, electrical lines) must be addressed in the Site Safety Plan and appropriately delineated onsite. Note if encroachment permits, traffic control, or lane closures may be required.

The permit fee allows for the following inspections:

TANK PULL

We do not need to be on-site when tank is actually pulled but can arrive right after. We need to inspect:

1. Excavation for any obvious pollution.
2. Make sure all piping has either been removed or capped.
3. Tank has been inerted with dry ice (15 to 20 lbs. per 1,000 gallons tank volume). Dry ice should be broken and evenly distributed over tank bottom at least four hours prior to removal.
4. Check tank with an LEL meter to make sure it is within an acceptable range for transportation (< 10% LEL).
5. Tank should be vented at top to allow for escape of any residual vapors. Only one 1/8-inch vent is necessary, all others should be plugged.
6. Transporter of tank must carry in his vehicle: a copy of the paperwork showing the tank has been rinsed; a copy of the receipt for the dry ice; and (optional) declaration from this Department that we have designated the tank as nonhazardous. The above information is necessary in case the driver is stopped by the California Highway Patrol (CHP).
7. The tank must be transported the same day it is removed from the ground.



8. Obtain soil samples using brass or stainless steel tubes ONLY. KERR JARS ARE NOT ACCEPTABLE. (Follow the LUFT Guidelines for proper soil sampling protocol.) If contamination is questionable, it is up to the responsible party or their designated representative to make the determination of when they feel the excavation has been cleaned to the level where soil samples could then be obtained. The locations of where samples should be obtained are as follows:

State regulations require a minimum of one sample per 400 square feet of tank.

(See Attachment D for suggested sampling procedure.)

Sample #1: Directly below the tank (i.e., within one foot of the tank bottom) under the fill area. (Most contamination occurs in this area due to over-spills, improper piping connections, etc.) If material under than tank is backfill and/or gravel, sand, or coarse gravelly material, it will not hold on to any contamination, especially gasoline. If you run into this material, keep digging until you encounter either what appears to be native material and finer soil or a clay layer. Sample #1 should be obtained at this time.

Sample #2: Ideally, Sample #2 should be obtained 3 feet below Sample #1. The same criteria applies. Sample #2 is necessary in cases where, if contamination of Sample #1 is evident, Sample #2 will show if contamination is increasing (further investigation is required), decreasing, or non-existent (site may be declared "clean" and closed).

Sample #3: Obtain at the opposite end of the tank, directly below the tank (i.e., within 1 foot of the tank bottom).

Additional soil samples will be required under each dispenser and for every 20 feet of piping. The same sampling guidelines as listed above shall apply. When overexcavation is required due to presence of contaminants, the inspector may, at his discretion, require samples be obtained from the sidewalls - every 5 feet vertically and 20 feet laterally.

The permittee is responsible for packaging and shipping of soil samples to a State-approved laboratory (a list is available from this office). The samples must be shipped in dry ice, in an ice chest, and accompanied by a Chain of Custody Record (completed by inspector). Overnight mail (Express Mail), Federal Express overnight or hand delivery to the lab are acceptable. UPS is not acceptable as they are unable to deliver overnight. Check with U.S. Postal Service or Federal Express for time deadlines. If the inspector is requested to package and ship the material, a \$34.00 per hour (plus cost of materials) extended time fee will be charged.

When any contaminated soil is excavated, it may not be put back as backfill material but must be removed to an approved area.

When groundwater is encountered, a water sample should be obtained according to LUFT Guidelines. If possible, the water in an excavation pit should be purged and allowed to fill several times prior to obtaining a sample. If water was inadvertently contaminated through contact with a contaminated backhoe bucket, or for other reasons, removing the contaminated water and



allowing the pit to refill will provide for a more representative sample. The pumped water must be drummed or vacuumed out by a licensed hauler. If drummed, a sample should be obtained to determine if it is hazardous or clean and then can be disposed of appropriately.

A water sample must be obtained in a VOA bottle with a teflon cap. Take the water sample below the surface. No headspace must exist in the bottle. Sample must be shipped refrigerated (not frozen), overnight to a certified lab via chain of custody procedures. It is a good practice to obtain two samples as very often samples are broken in transit. See Attachment C for testing information.

If contamination is evident and further investigation is required, consult the LUFT Guidelines. At this point, a workplan for further investigation must be submitted by the permittee for further review by this Department and, if groundwater is impacted, the Lahontan Regional Water Quality Control Board.

#### CONTAMINATED SOIL

No soil removed from an excavation which has known or suspected contamination may be put back into the excavation. If soil is stockpiled it may be sampled for lab analysis to determine if it can be used for backfill.

#### Gasoline

Gasoline-contaminated soil may never be aerated on-site if site is within a city, town, or near any residential area. If site is remote, gasoline-contaminated soil may be allowed to aerate onsite. Check with APCD. Otherwise, soil must go to an approved site (i.e., Sunland Landfill). Benzene, a constituent of gasoline, is a known carcinogen and can be a threat to public health due to air emissions and when in water. Gasoline-contaminated soil, when temporarily stockpiled on-site, should be covered with plastic or visquene to prevent exposure to the public. Soil should be barricaded with the proper signs.

#### Diesel

Diesel may be aerated on-site in most instances. If site is in a city or town, check with APCD. Otherwise, it must be transported to an approved site.

If fuel-contaminated soil is less than 1000 ppm TPH, it may be hauled by anyone to Sunland Landfill. If soil is greater than 1000 ppm TPH, it must be manifested to an approved TSDF by a licensed hauler. Director may approve hauling to Sunland on a case-by-case basis.

Once soil at landfill has been sufficiently aerated, soil samples shall be obtained for lab analysis. See Attachment C for appropriate tests. Liability for soil remains with the responsible party until lab results show acceptable levels and soil can be used within the landfill.

When soil is spread at landfill, it must be 6 inches thick and turned several times. For soil 6 inches thick, two samples shall be obtained for every 75 foot by 75 foot plot (see variance).

LABORATORY TESTING

The following tests shall be run for each petroleum type listed:

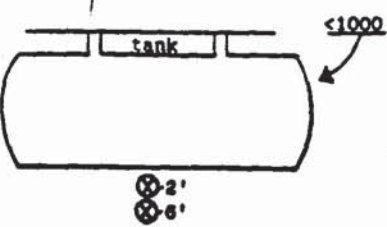
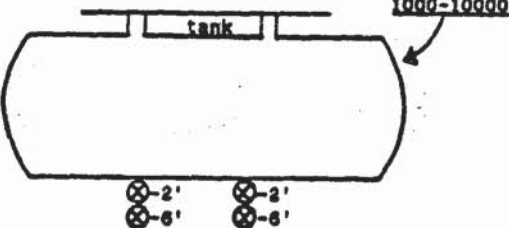
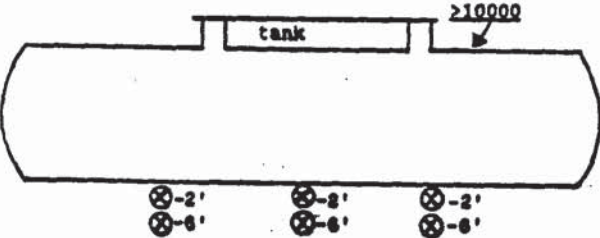
<u>SOIL</u>	<u>TEST FOR:</u>	<u>ANALYTICAL METHOD</u>
1. Gasoline	benzene, toluene, xylene, ethylbenzene (BTXE)	EPA 8020
	total petroleum hydrocarbons (TPH)	Modified EPA 8015
	ethylene dibromide (EDB)	DHS extraction method
	organic lead (if leaded gasoline)	DHS
2. Diesel	total petroleum hydrocarbons (TPH)	Modified EPA 8015
3. Waste Oil	oil and grease	EPA 418.1
	BTXE	EPA 8020
<u>WATER</u>		
1. Gasoline	BTXE	EPA 602
	TPH	DHS method
	EDB (if necessary)	EPA 601
	organic lead (if necessary)	DHS method
2. Diesel	TPH	DHS method
3. Waste Oil	BTXE	EPA 602
	oil and grease	DHS
	TPH (diesel)	DHS
	lead and/or heavy metals	DHS



MINIMUM LOCATIONS AND DEPTHS  
FOR PRELIMINARY SITE ASSESSMENT

Tanks

Soil samples must be retrieved from areas below the tank unless it is not feasible to do so. Any deviation from the minimum standards described on this page must receive prior written Department approval in order to be accepted. The number of samples that must be retrieved is dependent on the tank volume. The following list provides minimum requirements for specified tank sizes.

<u>ILLUSTRATION</u> (showing sample locations)	<u>NOMINAL VOLUME</u> (gallons)	<u>NUMBER OF SAMPLES &amp; DEPTHS</u>	<u>LOCATION</u>
	<1000	1 sample - 2' 1 sample - 6'	center tank (SAMPLE MUST BE OBTAINED BELOW FILL PIPE AREA)
	1000-10000	2 samples - 2' 2 samples - 6'	1/3 of the way in from each end (ONE SET BELOW FIL AREA)
	>10000	3 samples - 2' 3 samples - 6'	center and 1/4 of the way in from each end (ONE SET BELOW FIL AREA)

If the permittee believes that these sampling requirements are not feasible, an alternative sampling plan must be submitted to the Department including a detailed explanation of the reasons that sampling cannot be performed at the required locations and depths. Alternative sampling must be approved before the samples are retrieved.

PIPING AND OTHER APPURTENANCES

Soil sampling must be retrieved from areas below pipelines extending from the tank and below dispenser islands. Samples must be retrieved for every 15 linear feet of pipeline, at two feet and six feet below the piping. They must be retrieved directly under each dispenser area at two feet and six feet.