



April 11, 2012

Mr. Terry Stilman
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, SW, 11th Floor
Atlanta, Georgia 30303

**Subject: Removal Action Oversight Letter Report
Vermiculite Exfoliation GAO 144 PRP Removal
Atlanta, DeKalb County, Georgia
Contract No.: EP-W-05-054
TDD No.: TTEMI-05-001-0156**

Dear Mr. Stilman:

The Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting this letter report summarizing removal action activities that were conducted by W.R. Grace, the potentially responsible party (PRP), at the Vermiculite GAO 144 (GAO 144) vermiculite site in Atlanta, DeKalb County, Georgia from October 25, 2011 through February 24, 2012. This report includes five enclosures. Enclosure 1 provides figures that illustrate the site location and layout as well as sampling locations and removal areas. Enclosure 2 provides tables that represent bulk soil and sediment analysis, along with analytical air sampling data. Enclosure 3 is a photographic log of the removal action. Enclosure 4 is a copy of Tetra Tech's field logbook notes. Enclosure 5 is a Table of Witnesses.

BACKGROUND

The GAO 144 site is located at 1167 Zonolite Place NE, in Atlanta, DeKalb County, Georgia (see Enclosure 1, Figure 1). The geographic coordinates for the site are latitude 33.8053 degrees north and longitude 84.3422 degrees west. The GAO 144 site is located about four miles northeast of downtown Atlanta, Georgia, in a developed urban area of mixed light-industrial, commercial, and residential use. The site occupies about 16 acres, some or all of which were the former location of a vermiculite exfoliation (expansion) plant. The GAO 144 site is bordered to the south by Dalon Road, a landscape services and garden business, and the south fork of Peachtree Creek. To the west of the GAO 144 site is the creek and several residences. The GAO 144 site is bordered to the north by railroad tracks and a complex containing numerous commercial and light industrial businesses. The eastern portion of the GAO 144 site is occupied by the Atlanta Soto Zen Center; beyond the Zen Center lie additional light industrial and commercial businesses. Residential communities are located to the south beyond the south fork of Peachtree Creek, to the west, and to the north beyond the railroad tracks. Enclosure 1, Figures 1 and 2 show the site location and general site layout.

According to W.R. Grace, all equipment and buildings associated with the vermiculite exfoliation plant – except for an office building – were reportedly removed and demolished in 1970. Historical aerial photographs going back to 1955 (five years after the plant was reportedly built), however, indicate that demolition of structures thought to have been a part of the plant was conducted in phases beginning sometime between 1960 and 1968 and ending sometime between 1988 and 1993. The former office building was occupied by the Atlanta Soto Zen Center during the time of the sampling events conducted at the GAO 144 site; this building is located on the eastern portion of the former plant property and

includes some paved areas for parking. Another nearby structure, severely dilapidated and which may have served as the former vermiculite exfoliation facility's bath house, also still exists at the site. Two additional structures observed at the GAO 144 site during the field sampling events appear to have existed, according to historical aerial photographs, since at least 1955. These structures therefore appear to have been present during the operational period of the former vermiculite exfoliation facility, but their association with the facility is unknown.

DeKalb County, which reportedly owns part of the area occupied by the former vermiculite expansion facility, is in negotiation with citizens in the local community to establish a park in this area, with walking trails extending through the wooded areas and along the south fork of Peachtree Creek.

According to W.R. Grace, the expansion plant operated from 1950 until 1970. The former vermiculite expansion plant was first constructed at the site by Southern Zonolite Company in 1950; this company reportedly owned this property at that time. In 1957, Zonolite Company merged with the Southern Zonolite Company. In 1963, W. R. Grace and Company acquired the assets of the Zonolite Company, and continued to operate the expansion plant until 1970. According to W.R. Grace, the parcel was deeded to R. W. Sterrett in 1983. According to various sources, between 480 and 1,225 tons of vermiculite concentrate from the W.R. Grace vermiculite mine in Libby, Montana were shipped to the GAO 144 site.

PREVIOUS INVESTIGATIONS

In March, April, November and December 2010, EPA and Tetra Tech conducted several sampling events at the GAO 144 site that involved the collection of bulk material samples as well as air samples, including the use of activity-based sampling (ABS) techniques. Activities conducted during these events were detailed in the *Final Removal Assessment Report, Activity-Based Air, and Bulk Material Sampling Events, Vermiculite Exfoliation Site, GAO 144, Atlanta, Fulton County, Georgia*, dated April 14, 2011. Analytical results obtained from the removal assessment included an indication of the presence of asbestos (as tremolite at concentrations up to 2 percent and as Libby amphibole at concentrations up to 0.75 percent) in bulk material samples collected on and within the elevated, sloped plateau area. The sloped plateau area height ranges from one foot, near the center of the site and gradually inclines to approximately 10 feet in height toward the northwestern corner of the site. This elevated, sloped plateau area was thought to encompass an area, 175 feet wide by 250 feet long.

W.R. GRACE REMOVAL ACTION

Based on the observations made and the analytical results of bulk samples collected by EPA and Tetra Tech START in 2010, W.R. Grace agreed to the terms of EPA's *Administrative Settlement Agreement and Order on Consent for Removal Action*, dated April 5, 2011. From October 25, 2011 to March 24, 2012, W.R. Grace and its contractor, Winter Environmental Services Inc. (Winter) conducted removal activities at the GAO 144 site, which included excavation and disposal of all visual Asbestos Contaminated Material (ACM) located on-site as well as material identified by analytical results and perimeter air monitoring for particulates. Per discussions with EPA, the following action levels and cleanup goals were established for the GAO 144 site:

- Action level = 0.25 percent Libby amphibole asbestos for bulk material samples
- Cleanup Goal = 0.02 fibers per cubic centimeter (f/cc) for ABS air samples

The following subsections discuss removal action activities conducted by W.R. Grace and Winter at the GAO 144 site.

On October 25, 2011, One Consulting Group, a W.R. Grace contractor, performed background air sampling at the GAO 144 site to establish air quality conditions, with respect to asbestos, prior to any removal actions.

On October 31, 2011, EPA, Tetra Tech START, W.R. Grace and their subcontractors, mobilized to the site to initiate removal action activities. Based on previous investigations, W.R. Grace's removal action efforts focused on the elevated, sloped plateau area located on the western portion of the site. A listing of roles and responsibilities for site personnel is detailed below:

- EPA – Responsible for the total oversight, compliance with the site-specific *EPA Administrative Settlement Agreement and Order on Consent for Removal Action* and conformation of regulatory policies and procedures during removal and restoration activities.
- Tetra Tech START – EPA contractor responsible for providing technical assistance to EPA and performing air monitoring during removal activities.
- Batta Environmental Associates (Batta) – EPA contractor responsible for performing air and bulk soil testing by EPA approved analytical laboratory methods and analyses during removal and clearance activities.
- W.R. Grace – Responsible for the overall completion and removal of ACM; based on visual observation and laboratory analytical analyses.
- URS – W.R. Grace Contractor responsible consulting, sampling and project management services.
- Winter – W.R. Grace Contractor responsible for excavation, removal and disposal activities.
- One Consulting Group (One Group) – W.R. Grace Contractor responsible for performing air and soil sampling during site clearing, removal, and clearance activities.
- Material Analytical Services (MAS) – W.R. Grace Contractor responsible for performing air and bulk soil analysis by EPA approved analytical laboratory methods and analysis during site clearing, removal, and clearance activities.

Daily Air Monitoring and Air Sampling Analysis (Perimeter and Worker Safety)

On October 25 and 27, 2011, One Group performed asbestos air sampling analysis along the perimeter of the site to establish background concentrations, prior to removal operations. Results were non-detect.

From October 31, 2011 to February 23, 2012, One Group established 5 perimeter air sampling locations and conducted OSHA worker safety air sampling of two Winter personnel which included an operator and a ground guide.

- Perimeter samples were analyzed daily during removal activities from October 31, 2011 to February 23, 2012 and were below the established EPA cleanup goal of 0.02 f/cc.

- Winter personnel samples were analyzed daily during removal activities from October 31, 2011 to February 23, 2012 and were below the OSHA Worker Safety Standard of 0.1 f/cc.

From November 8, 2011 to February 10, 2012, Tetra Tech START conducted particulate air monitoring using Thermo DataRam4000 instrumentation; with a 2.5 micron filter attachment. Although morning humidity and precipitation increased readings, Tetra Tech START observed no direct correlation between visual particulates generated during excavation and perimeter particulate air monitoring. This was attributed to consistent visual observations and wetting techniques recommended periodically by EPA, Tetra Tech START, and W.R. Grace representatives.

- 33,561 perimeter air monitoring measurements were collected and ranged from 0 to 472.6 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$); periodic rain events and humidity accounted for readings above the average of $8.93 \mu\text{g}/\text{m}^3$. All results were below the OSHA permissible exposure limit (PEL) of $5,000 \mu\text{g}/\text{m}^3$ for total particulates and nuisance dust. See Attachment 1(SCRIBE database).

Excavation and Removal Activities

From October 31 through November 8, 2011, Winter installed site erosion controls, security fencing, and a catch basin near the northeast corner of the site to collect and filter on-site surface water during removal activities. Winter also used a brush-cutting device to remove overgrown vegetation and small trees from the elevated, sloped plateau area located in the center and western portions of the site. During brush-cutting activities EPA recommended that respirator protection be worn by all Winter personnel performing the activity.

After vegetation removal, EPA and W.R. Grace performed a site walk of the newly defined area and observed visual ACM extending outside the previously defined area of 175 feet wide by 250 feet long, referred to earlier as the sloped plateau. The newly defined contaminated area covered approximately 400 feet wide by 350 feet long. Based on the extent of ACM contamination, larger trees were removed and new site erosion controls were established along the northern, western and southern property boundary and storm water drainage ditch locations.

The defined contaminated area was excavated in two separate phases; the center and western portion (excavation pit and surrounding berm areas) were excavated from November 9, 2011 to February 5, 2012. Based on storm water run-off and ground water intrusion, a decision to remove the perimeter berm and replace it immediately prior to activity-based sampling was warranted, due to the close proximity of the storm water drainage ditches. During this phase of removal activities, a 30-foot wide erosion berm was removed; six bulk soil samples (CB-1 through CB-6) were collected and submitted to MAS for asbestos analysis. Based on analytical results below the site-specific action level, Grace performed backfilling operations of the perimeter berm adjacent to the northern, western, and southern storm water drainage ditches, with EPA approval.

The area surrounding the north and south pads was excavated from February 10 through 20, 2012.

During the excavation process from November 9, 2011 to February 20, 2012, empty dump trucks would enter the site from the service road and travel less than 5 miles per hour along the site access road entering the exclusion zone. While in the exclusion zone, the dump truck bedding was lined using 8 millimeter polypropylene leak proof sheeting and a single ladder for access to the dump trucks. After observation of single ladder use, the assistance of a scaffolding system was recommended to Winter by EPA and Tetra Tech START representatives based on safety concerns.

The dump trucks then proceeded to the area being excavated to be directly loaded from the excavator, eliminating stock piling of ACM, and minimizing the release of airborne particulates. Next, the dump truck would reentered the scaffolding area, where the lined sheeting was overlapped and sealed using duct tape and adhesive spray, encapsulating the material for transportation to the landfill. Prior to leaving the site, the dump truck's tires and sidewalls were pressure washed and all runoff water was collected filtered and discharged into an adjacent storm water drainage ditch. Each truck was issued a non-hazardous manifest signed by a W.R. Grace representative prior to leaving the site.

- Newsome Trucking and its subcontractors transported 1,857 truckloads; totaling 26,063.92 tons of ACM to the Waste Management landfill located in Ball Ground, Georgia (see URS final report).

Bulk Sample Analysis and Results

Tetra Tech START, URS, and One Group collected several bulk composite and bulk grab samples during removal activities. These samples were used to assess the extent of contamination, further characterize the site and provide confirmation of ACM removal following excavation activities. Enclosure 1, Figure 3 illustrates the sample locations and Enclosure 2, Table 1 list the sample results.

- URS collected 7 bulk composite soil samples (6 bulk composite soil samples were split with Tetra Tech START) from various locations throughout the exclusion zone. Samples were submitted to MAS for asbestos analysis by polarized light microscopy (PLM). All bulk composite soil sample results show no asbestos detected.
- URS collected 13 bulk grab samples (2 bulk grab soil sample were split with Tetra Tech START) from various locations throughout the exclusion zone. Samples were submitted to MAS for asbestos by PLM analysis. Two bulk grab soil samples, CSP-SWC and C-NWL, collected in the excavation pit contained trace tremolite and actinolite. The remaining bulk grab soil samples were non-detect. This suspect material was excavated to native soil and disposed of during removal activities and confirmed during sidewall bulk grab analysis and ABS clearance sampling.
- One Group collected 8 bulk grab samples located along the northeast perimeter of the site, outside the exclusion zone to delineate dirt piles in the adjacent wooded area. Samples were submitted to MAS for asbestos analysis by PLM and results for samples EP1-1 through EP1-8 show that no asbestos was detected.
- Tetra Tech START performed split bulk composite soil sampling with URS during removal activities. Tetra Tech START split 6 bulk composite soil samples with URS, samples were submitted to Batta for asbestos analysis by transmission electron microscopy (TEM). Results ranged from non-detect to 0.05% Libby amphibole, below the site-specific action level of 0.25% asbestos.
- Tetra Tech START performed split bulk grab sampling with URS during removal activities. Tetra Tech START split one bulk grab sample (CP1-6) with URS and the sample was submitted to Batta for asbestos analysis by TEM. Sample results show 0.23% Libby amphibole, which is below the site-specific action level of 0.25% asbestos. W.R. Grace decided to excavate to native soil based on the relatively close comparison of the results.

- An additional 10 split composite aliquots (bulk grab soil samples) from within the excavation pit were analyzed by Batta, these results ranged from non-detect to trace amounts of anthophyllite, chrysotile, and Libby amphibole.
- Tetra Tech START collected and submitted two bulk grab soil sidewall samples (ATV-SW-01 and ATV-SW-02) to Batta for asbestos analysis by TEM. These sidewall samples were co-located with URS bulk grab samples, CNP-SW-1 (north sidewall) and CSP-SW-1 (south sidewall) respectively. The south sidewall sample (ATV-SW-02), collected by Tetra Tech START contained trace amounts of chrysotile and Libby amphibole. The north sidewall sample (ATV-SW-01), collected by Tetra Tech, contained 0.43% total asbestos (0.41% Libby amphibole and 0.02% anthophyllite). Based on these results, Winter removed an additional 10 feet in length and 5 feet in depth, of concrete pad and soil material from the northwest corner of the north pad. This area was resampled and a split sample, CNP-SW-1R, was submitted; by URS to MAS for asbestos analysis by PLM, while the split sample collected by Tetra Tech START was submitted to Batta for asbestos analysis by TEM. PLM results show no asbestos observed and TEM results show asbestos concentrations were none detected. The analytical results of the resampling event were below the site-specific action level of 0.25% asbestos.
- Tetra Tech START collected four bulk grab sediment samples, including one background from the Peachtree Creek stream bed on February 24, 2012 (see Enclosure 1, Figure 5). Sediment samples were collected to confirm that effective site erosion controls were utilized and that off-site soil and possible ACM migration was limited. Sediment samples were submitted to Batta for TEM asbestos analysis and results for all samples show no asbestos detected.

Activity-Based Air Analysis and Results

The site was segregated into two distinct removal areas, including the excavation pit area and the concrete pad area (see Enclosure 1, Figure 4).

- On February 6, 2012, after ACM removal activities in the excavation pit, One Group personnel conducted ABS air sampling simulating a raking activity inside the boundaries of the excavation pit using three personnel. The excavation pit was divided into three smaller areas because of ground water intrusion which caused some areas of the excavation pit to be inaccessible. Each ABS participant worked in a specific area for 40 minutes and then switched with another participant, who was working in an adjacent area. This sequence was repeated three time until the entire 120 minute ABS event was completed. Each person carried a 3-liter per minute pump and a 10-liter per minute pump, each affixed with a 25-millimeter, 0.8-micron mixed cellulose ester (MCE) filter cassette. In addition, each One Group representative carried an extra set of pumps, including one duplicate set supplied by Tetra Tech START for the collection of a co-located high and low volume air sample set. Analytical results obtained by W.R. Grace from MAS indicated that asbestos was not detected at concentrations above the action level of 0.02 f/cc for any of the samples collected. Analytical results from Batta indicated that asbestos was not detected (see Enclosure 2, Table 2).
- On February 23, 2012, after pressure washing the north and south pad and conducting final removal activities, One Group personnel conducted ABS air sampling simulating a sweeping activity on the north and south concrete pad areas using three personnel. The concrete pads were divided into three smaller areas due to standing water. Each ABS participant worked in a specific area for 40 minutes and then switched with another participant, who was working in an adjacent area. This sequence was repeated three time until the entire 120 minute ABS event was

completed. Each person carried a 3-liter per minute pump and a 10-liter per minute pump, each affixed with a 25-millimeter, 0.8-micron MCE filter cassette. ABS sampling was conducted over a period of 120 minutes. In addition, each One Group representative carried an extra set of pumps, including one duplicate set supplied by Tetra Tech START for the collection of a co-located high and low volume sample set. Analytical results obtained by W.R. Grace from MAS indicated that asbestos was not detected at concentrations above the action level of 0.02 f/cc for any of the samples collected. Analytical results from Batta also indicated that asbestos was not detected (see Enclosure 2, Table 2).

Site Restoration

During restoration activities, W.R. Grace graded the site to ensure proper erosion controls were in place and that site contours provide adequate drainage based on the approved, *Atlanta Zonolite Place Site – Final Grading Plan Addendum* submitted by DeKalb County and presented by AECOM engineering firm on February 2, 2012. W.R. Grace and its contractors in order to adhere to this grading plan addendum completed the following activities:

- Delivered 558 truckloads; totaling 8,055 tons of clean backfill to cover portions of the site based on the approved grading plan and survey bench marks set by Geo Survey
- Installed a single-sided, erosion control straw matting along the north, west, and south drainage areas
- Hydro seeded the entire exclusion zone with 100% fescue seed
- Utilized crushed concrete aggregate to improve the site entrance access road and service road

SUMMARY

In October 2011, W.R. Grace initiated a removal action at the GAO 144 site in Atlanta, Georgia. Activities included the collection and analysis of bulk material samples to further characterize site conditions; excavation of areas surrounding the north and south concrete pads; cleaning of the concrete pads where possible vermiculite migration occurred during removal activities and collection of air samples using ABS techniques from within the excavated areas. During the removal action, W.R. Grace hired Winter, URS, and One Group to complete field activities. EPA and Tetra Tech START provided oversight, perimeter particulate monitoring; documentation of removal activities and co-located ABS samples for laboratory analysis. On February 23, 2012, W.R. Grace and its contractors completed removal activities. On February 24, 2012, Tetra tech START performed sediment sampling outside of the exclusion zone to confirm effective erosion control measures were in place during removal activities. Those sample results show non detect for asbestos; confirming that migration of site contaminants did not enter into Peachtree Creek during removal activities.

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If you have any questions or comments regarding this letter report, please contact me at 678-775-3110.

Sincerely,



Randy P. Mayer
START III Site Manager



Andrew F. Johnson
START III Program Manager

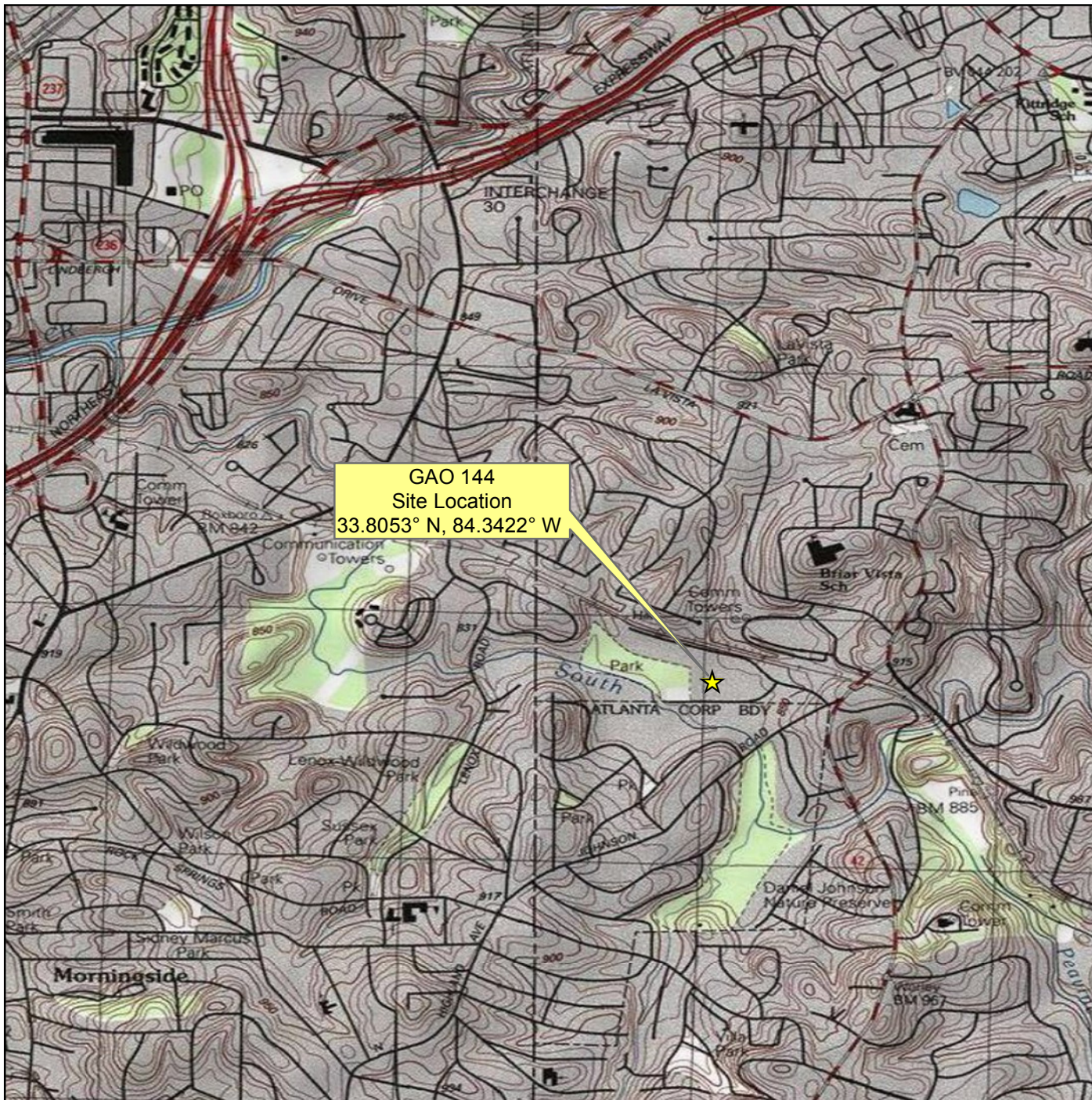
Enclosures (5)

cc: Katrina Jones, EPA Project Officer
Angel Reed, START III Document Control Coordinator

ENCLOSURE 1

FIGURES

(Five Pages)



0 1,000 2,000
Feet

MAP SOURCE:
USGS, NORTHEAST ATLANTA
TOPOGRAPHIC QUADRANGLES, 1999

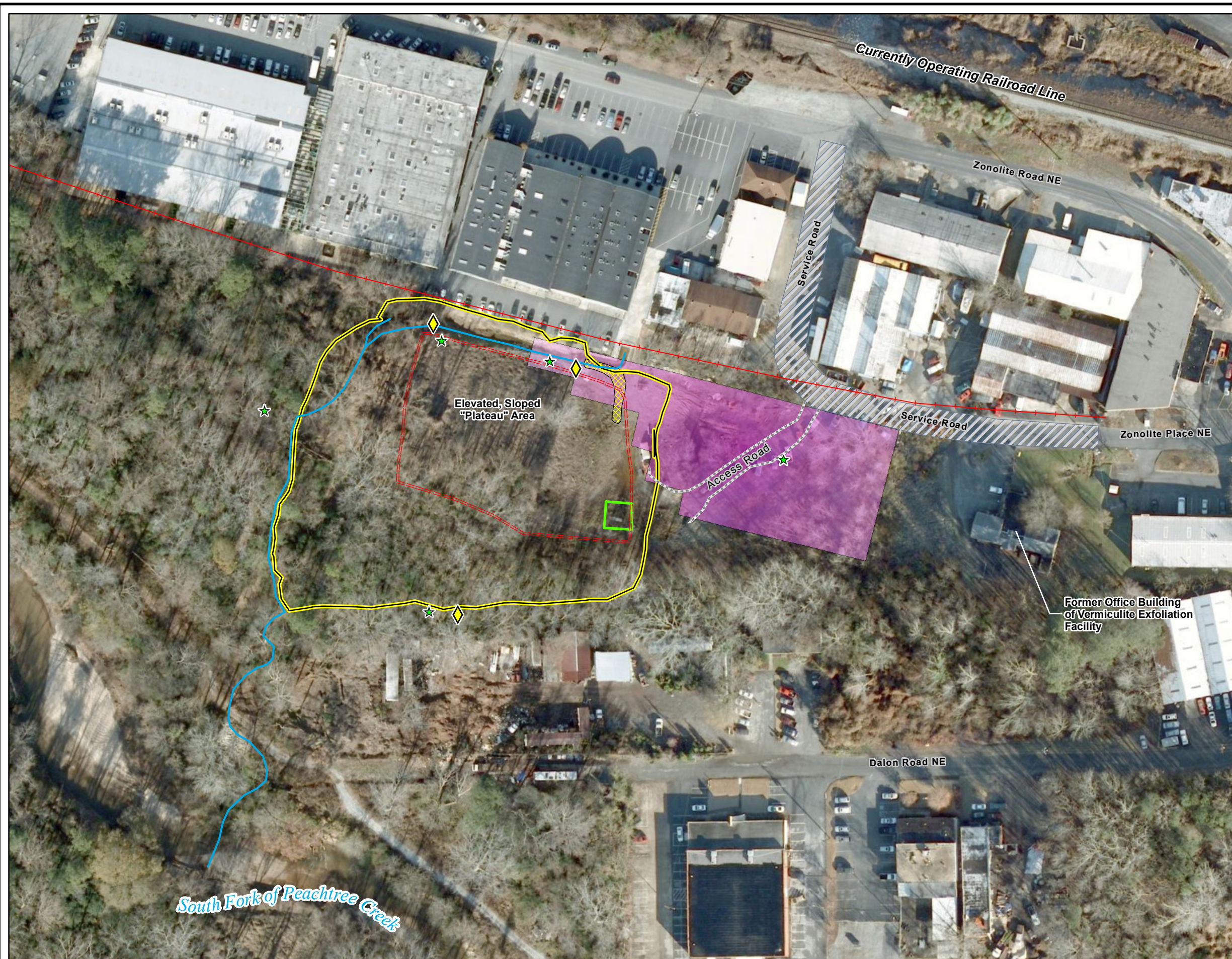


United States Environmental Protection Agency

VERMICULITE EXFOLIATION SITE
GAO 144, PRP REMOVAL
ATLANTA,
DEKALB COUNTY,
GEORGIA
TDD No. TTEMI-05-001-0156

**FIGURE 1
SITE LOCATION**





Legend

- START Particulate Monitoring Station (DataRAM)
- One Group Consulting Sampling Location
- Approximate location of former railroad spur (eastern extent is unknown)
- Approximate location of unnamed drainage
- Access Road
- Initial Excavation Extent
- Final Excavation Extent and Exclusion Zone
- Decon
- Sediment Basin
- Service Road
- Approximate location of former vermiculite exfoliation facility buildings

0 25 50 100 Feet

Aerial Photograph: BING Maps, Online Service, 2010



United States
Environmental Protection Agency

VERMICULITE EXFOLIATION SITE
GAO 144, PRP REMOVAL
ATLANTA,
DEKALB COUNTY,
GEORGIA
TDD No. TTEMI-05-001-0156

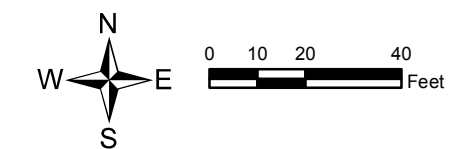
**FIGURE 2
SITE LAYOUT**





Legend

- Bulk Grab Sample (Grace)
- Bulk Composite Sample (EPA/Grace Split)
- Bulk Grab Sample (EPA/Grace Colocated)
- Bulk Grab Sample (EPA/Grace Split)
** After excavation by Winter contractors, Tetra Tech START & URS split a bulk soil sidewall sample, CNP-SW-1R results were below site specific action limit of 0.25% Asbestos
- Bulk Grab Sample (EPA/Grace Split)
- Concrete Pad
- Excavation Pit
- Final Excavation Extent and Exclusion Zone
- Approximate location of former railroad spur (eastern extent is unknown)



VERMICULITE EXFOLIATION SITE
GAO 144, PRP REMOVAL
ATLANTA,
DEKALB COUNTY,
GEORGIA
TDD No.TTEMI-05-001-0156

**FIGURE 3
BULK SAMPLING
LOCATIONS**






Legend

- Activity Areas
- Concrete Pad
- Excavation Pit
- Final Excavation Extent and Exclusion Zone
- Approximate location of former railroad spur (eastern extent is unknown)



0 10 20 40
Feet

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**FIGURE 4
ACTIVITY BASED
SAMPLING**





Legend

- February 24, 2012 Sediment Sample Location
- Bulk Sample Point Location, from Final Removal Assessment Report, Activity -Based Air and Bulk Material Sampling Events, April 14, 2011

Note:
Sediment and bulk soil samples displayed on this figure were non-detect for asbestos.

- Approximate location of former railroad spur (eastern extent is unknown)
- Approximate location of unnamed drainage
- Access Road
- Excavation Pit
- Final Excavation Extent and Exclusion Zone



0 25 50 100
Feet

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ATLANTA,
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**FIGURE 5
OFF-SITE SAMPLING
LOCATIONS**



ENCLOSURE 2

TABLES

(3 Pages)

TABLE 1
BULK SOLID SAMPLES

Collection Date	Sampled By	Sample Identification	Sample Matrix	Sample Type	Sample Location and Description	Sample Results
December 20, 2011	URS	CB-1	Soil	Grab	North Berm	No Asbestos Observed
December 20, 2011	URS	CB-2	Soil	Grab	North Berm	No Asbestos Observed
December 20, 2011	URS	CB-3	Soil	Grab	West Berm	No Asbestos Observed
December 20, 2011	URS	CB-4	Soil	Grab	West Berm	No Asbestos Observed
December 20, 2011	URS	CB-5	Soil	Grab	South Berm	No Asbestos Observed
December 20, 2011	URS	CB-6	Soil	Grab	South Berm	No Asbestos Observed
January 4, 2012	URS	CP1-1 Composite	Soil	Composite	South Pad Composite - 3 inches	No Asbestos Observed
January 4, 2012	URS	CP1-6	Soil	Grab	South Pad (Open Area) - 3 inches	No Asbestos Observed
January 5, 2012	URS	CSP-SWC	Soil	Grab	Confirmation South Pad - SW Corner	Trace tremolite and Trace actinolite
January 5, 2012	URS	CNP-NWC	Soil	Grab	Confirmation North Pad - NW Corner	No Asbestos Observed
January 5, 2012	URS	C-NWL	Soil	Grab	Confirmation - NW line	Trace tremolite and Trace actinolite
January 5, 2012	One Consulting Group	EP1-1	Soil	Grab	East Pile	No Asbestos Observed
January 5, 2012	One Consulting Group	EP1-2	Soil	Grab	East Pile	No Asbestos Observed
January 5, 2012	One Consulting Group	EP1-3	Soil	Grab	East Pile	No Asbestos Observed
January 5, 2012	One Consulting Group	EP1-4	Soil	Grab	East Pile	No Asbestos Observed
January 5, 2012	One Consulting Group	EP1-5	Soil	Grab	East Pile	No Asbestos Observed
January 5, 2012	One Consulting Group	EP1-6	Soil	Grab	East Pile	No Asbestos Observed
January 5, 2012	One Consulting Group	EP1-7	Soil	Grab	East Pile	No Asbestos Observed
January 5, 2012	One Consulting Group	EP1-8	Soil	Grab	East Pile	No Asbestos Observed
January 6, 2012	URS	CSP-SW-1	Soil	Grab	Confirmation South Pad - Sidewall	No Asbestos Observed
January 6, 2012	URS	CNP-SW-1	Soil	Grab	Confirmation North Pad - Sidewall	No Asbestos Observed
January 6, 2012*	Tetra Tech	ATV-SW-01	Soil	Grab	North Pad Sidewall	0.02% anthophyllite, 0.41% Libby amphibole; 0.43% asbestos
January 6, 2012	Tetra Tech	ATV-SW-02	Soil	Grab	South Pad Sidewall	Trace chrysotile and Trace Libby amphibole
January 16, 2012	Tetra Tech/URS	P-13 Comp	Soil	Composite	Excavation Pit	None Detected/No Asbestos Observed
January 16, 2012	Tetra Tech/URS	P-18 Comp	Soil	Composite	Excavation Pit	None Detected/No Asbestos Observed
January 16, 2012	Tetra Tech/URS	P-23 Comp	Soil	Composite	Excavation Pit	Trace Libby amphibole/No Asbestos Observed
January 16, 2012	Tetra Tech/URS	P-28 Comp	Soil	Composite	Excavation Pit	0.05% Libby amphibole/No Asbestos Observed
January 16, 2012	Tetra Tech	P-23	Soil	Grab	Excavation Pit	Trace Libby amphibole
January 16, 2012	Tetra Tech	P-24	Soil	Grab	Excavation Pit	Trace chrysotile
January 16, 2012	Tetra Tech	P-25	Soil	Grab	Excavation Pit	None Detected

TABLE 1
BULK SOLID SAMPLES

Collection Date	Sampled By	Sample Identification	Sample Matrix	Sample Type	Sample Location and Description	Sample Results
January 16, 2012	Tetra Tech	P-26	Soil	Grab	Excavation Pit	Trace chrysotile and Trace Libby amphibole
January 16, 2012	Tetra Tech	P-27	Soil	Grab	Excavation Pit	None Detected
January 16, 2012	Tetra Tech	P-28	Soil	Grab	Excavation Pit	Trace anthophyllite and Trace Libby amphibole
January 16, 2012	Tetra Tech	P-29	Soil	Grab	Excavation Pit	Trace Libby amphibole
January 16, 2012	Tetra Tech	P-30	Soil	Grab	Excavation Pit	None Detected
January 16, 2012	Tetra Tech	P-31	Soil	Grab	Excavation Pit	Trace Libby amphibole
January 16, 2012	Tetra Tech	P-32	Soil	Grab	Excavation Pit	None Detected
January 18, 2012	Tetra Tech/URS	CPI-6	Soil	Grab	South Pad (Open Area)	Trace other, 0.23% Libby amphibole/No Asbestos Observed
January 18, 2012	Tetra Tech/URS	CPI-3 Comp	Soil	Composite	South Pad Composite - 3 feet	Trace other, 0.18% Libby amphibole/No Asbestos Observed
January 27, 2012	Tetra Tech/URS	NCP-COMP/ NCP-COMP 3'	Soil	Composite	North Pad Composite - 3 feet	None Detected/No Asbestos Observed
February 6, 2012*	Tetra Tech/URS	CNP-SW-1R	Soil	Grab	North Sidewall - Resample	None Detected
February 7, 2012	One Consulting Group	AB-5-SC	Soil	Composite	Composite of ABS 5: raked material	No Asbestos Observed
February 23, 2012	One Consulting Group	AB-2	Soil	Composite	Composite of ABS 6: swept material	No Asbestos Observed
February 24, 2012	Tetra Tech	G144-BS-C-BKA	Sediment	Grab	Background Sediment Creek Sample	None Detected
February 24, 2012	Tetra Tech	G144-BS-C-01	Sediment	Grab	Sediment Creek Sample 1	None Detected
February 24, 2012	Tetra Tech	G144-BS-C-02	Sediment	Grab	Sediment Creek Sample 2	None Detected
February 24, 2012	Tetra Tech	G144-BS-C-03	Sediment	Grab	Sediment Creek Sample 3	None Detected

Notes:

* = These two samples were collected from the north sidewall; the February 6, 2012 sample is a resample of the January 6, 2012 sample.

BOLD = Asbestos detected above site action level of 0.25% asbestos.

AB= Activity-based composite bulk sample

ATV = Atlanta Vermiculite

BKA = Background Sediment Sample

BS = Bulk solid

C = Confirmation

CB = Confirmation Berm

CNP = Confirmation North Pad

CSP= Confirmation South Pad

COMP = Composite sample

CPI = Composite pad 1

DUP = Field duplicate sample

EP= East piles

G144 = Site identifier

NCP = North Composite Pad

NWC= Northwest Corner

NWL= Northwest Line

P = Sample Identifier

R = Reanalysis

SC= Soil confirmation

SW = Sidewall

SWC= Southwest Corner

TABLE 2
ACTIVITY-BASED AIR SAMPLING:
ROUND 5 AND ROUND 6

Activity-Based Sampling Round 5:

Collection Date	Sample Identification	Sample Matrix	Sample Type	Sample Location and Description	Sample Results
February 7, 2012	00367	Air	Lot Blank Direct	Excavation Pit; Raking Scenario	None Detected
February 7, 2012	00368	Air	Lot Blank Direct	Excavation Pit; Raking Scenario	None Detected
February 7, 2012	00369	Air	Field Blank Direct	Excavation Pit; Raking Scenario	None Detected
February 7, 2012	00370	Air	Field Sample Direct	Excavation Pit; Raking Scenario	None Detected
February 7, 2012	00373	Air	Field Sample Direct	Excavation Pit; Raking Scenario	None Detected
February 7, 2012	00375	Air	Field Sample Direct	Excavation Pit; Raking Scenario	None Detected

Activity-Based Sampling Round 6:

Collection Date	Sample Identification	Sample Matrix	Sample Type	Sample Location and Description	Sample Results
February 23, 2012	00377	Air	Lot Blank Direct	North and South Concrete Pad; Sweeping Scenario	None Detected
February 23, 2012	00378	Air	Lot Blank Direct	North and South Concrete Pad; Sweeping Scenario	None Detected
February 23, 2012	00379	Air	Field Blank Direct	North and South Concrete Pad; Sweeping Scenario	None Detected
February 23, 2012	00380	Air	Field Sample Direct	North and South Concrete Pad; Sweeping Scenario	None Detected
February 23, 2012	00383	Air	Field Sample Direct	North and South Concrete Pad; Sweeping Scenario	None Detected
February 23, 2012	00385	Air	Field Sample Direct	North and South Concrete Pad; Sweeping Scenario	None Detected

ENCLOSURE 3
PHOTOGRAPHIC LOG
(41 Pages)



OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: South

Date: October 31, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: A mobile mini office trailer was procured and delivered to the site by Grace contractor Winter Environmental.



OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: South

Date: October 31, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Silt fencing was delivered to the site and Winter environmental began brush-cutting the entrance road to the site.



OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southeast

Date: October 31, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Winter contractors began installation of silt fencing along the northern perimeter of the site.



OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: South

Date: October 31, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: The overgrown foliage and trees will be removed from the north-eastern portion of the site as needed.



OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: October 31, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: The overgrown foliage and trees will be removed from the north-western portion of the site as needed.



OFFICIAL PHOTOGRAPH NO. 6
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: November 01, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: An excavator was delivered to the site to perform asbestos-containing material (ACM) removal.



OFFICIAL PHOTOGRAPH NO. 7
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: South

Date: November 02, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Silt fencing, orange security fencing, and "Warning" signage was placed along the northern perimeter of the site. Initial brush-cutting and foliage removal was performed on the center and north-eastern portions of the site.



OFFICIAL PHOTOGRAPH NO. 8
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: November 02, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Silt fencing, orange security fencing, and "Warning" signage was placed along the northern and western perimeter of the site. Initial brush-cutting and foliage removal was performed on the north-western portion of the site.



OFFICIAL PHOTOGRAPH NO. 9
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Downward
(Decontamination Station)

Date: November 02, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: A decontamination sump was placed near the entrance of the contaminated area, to collect and filter ACM during truck washing; prior to exiting the site.



OFFICIAL PHOTOGRAPH NO. 10
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: South

Date: November 07, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Winter contractors began construction of a sediment basin to collect and filter on-site storm water.



OFFICIAL PHOTOGRAPH NO. 11
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: East

Date: November 09, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Tetra Tech START began using DataRam particulate monitors, placed around the perimeter of the site, to measure possible particulate migration off-site at the request of EPA.



OFFICIAL PHOTOGRAPH NO. 12
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: November 09, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Winter contractors began ACM removal in the northwest corner, at the plateau's highest elevation.



OFFICIAL PHOTOGRAPH NO. 13
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: South

Date: November 14, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Based on removal work plans and recommendations by EPA, Winter construction acquired and began set-up of scaffolding to assist with lining and sealing of the dump trucks used for removal of ACM.



OFFICIAL PHOTOGRAPH NO. 14
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: November 22, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Winter contractors use clear polyethylene to cover excavated areas to minimize airborne particulate and dust migration off-site.



OFFICIAL PHOTOGRAPH NO. 15
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: North

Date: November 22, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Winter performs excavation along the southern tree line of the existing excavation area prior to expansion of the excavated area, based on visual observations and soil sample results.



OFFICIAL PHOTOGRAPH NO. 16
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Northeast

Date: November 22, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Winter performs excavation along the southern edge of the original designated ACM area. Dust control measures are also being conducted in and around the excavated areas.



OFFICIAL PHOTOGRAPH NO. 17
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TTEMI-05-001-0156	Location:	1167 Zonolite Place NE Atlanta, Georgia 30306
Orientation:	West	Date:	December 08, 2011
Photographer:	Leland J. Meadows	Witness:	EPA OSC Eichinger
Subject:	Original ACM area after excavation.		



OFFICIAL PHOTOGRAPH NO. 18
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: November 26, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Based on visual observations of ACM along the western and southern drainage ditch, the site was expanded towards the western and southern property boundaries.



OFFICIAL PHOTOGRAPH NO. 19
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: November 27, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: The original silt and security fencing will be reset to the west and south based on the expanded scope of removal activities because of visual observation and soil results for ACM.



OFFICIAL PHOTOGRAPH NO. 20
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: December 08, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Due to the large amount of tree and brush removed, a decision to mulch the trees and brush was made by EPA, W.R. Grace, and DeKalb County representatives.



OFFICIAL PHOTOGRAPH NO. 21
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TTEMI-05-001-0156	Location:	1167 Zonolite Place NE Atlanta, Georgia 30306
Orientation:	Southwest	Date:	December 13, 2011
Photographer:	Leland J. Meadows	Witness:	EPA OSC Eichinger
Subject:	Tetra Tech START continues particulate air monitoring during removal activities.		



OFFICIAL PHOTOGRAPH NO. 22
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: East

Date: December 14, 2011

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Winter contractors continue removal of ACM up to the concrete pad located near the eastern portion of the site.



OFFICIAL PHOTOGRAPH NO. 23
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: January 13, 2012

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Winter began removal of the berm between the excavated area and the existing northern storm water drainage ditch.



OFFICIAL PHOTOGRAPH NO. 24
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Downward
(Storm water drainage culvert)

Date: January 13, 2012

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: A three inch hose and pump was used to transfer storm water around the current excavation in order to minimize migration of excavated ACM along the existing northern storm water drainage ditch.



OFFICIAL PHOTOGRAPH NO. 25
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: January 19, 2012

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Winter continues excavation and dust suppression along the existing northern storm water drainage ditch.



OFFICIAL PHOTOGRAPH NO. 26
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: January 20, 2012

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Hay bales were used to create a temporary berm in order to minimize off-site migration of ACM during removal activities along the north and northwestern portion of the excavation.



OFFICIAL PHOTOGRAPH NO. 27
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: South

Date: January 21, 2012

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: Winter excavated down to native soil and encountered ground water intrusion in several areas. With the addition of rain at various times throughout the project, Winter used 2 and 3 inch pumps to capture, filter and discharge on-site storm water and ground water intrusion into southern storm water drainage ditch.



OFFICIAL PHOTOGRAPH NO. 28
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: South

Date: January 23, 2012

Photographer: Leland J. Meadows

Witness: EPA OSC Eichinger

Subject: A geo-membrane filter was used to capture and discharge on-site storm water and groundwater into the adjacent southern storm water drainage ditch.



OFFICIAL PHOTOGRAPH NO. 29
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: South

Date: January 30, 2012

Photographer: Leland Meadows

Witness: EPA OSC Eichinger

Subject: A dry haul road was constructed of concrete and soil mixture from the Newsome borrow pit. The haul road allowed dump trucks access to the full extent of the excavated area.



OFFICIAL PHOTOGRAPH NO. 30
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: January 31, 2012

Photographer: Leland Meadows

Witness: EPA OSC Eichinger

Subject: Based on dry conditions and visual dust along the haul road, EPA recommended dust suppression using a pick-up truck and water trailer.



**OFFICIAL PHOTOGRAPH NO. 31
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number:	TTEMI-05-001-0156	Location:	1167 Zonolite Place NE Atlanta, Georgia 30306
Orientation:	South	Date:	February 01, 2012
Photographer:	Leland Meadows	Witness:	EPA OSC Eichinger
Subject:	Winter continues removal of the southern drainage ditch to native soil.		



OFFICIAL PHOTOGRAPH NO. 32
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: West

Date: February 07, 2012

Photographer: Leland Meadows

Witness: EPA OSC Eichinger

Subject: One Group Consultants performed activity-based sampling (ABS), Event 5, at the GAO 144 site in the excavated area in order to meet clearance criteria for airborne asbestos fibers as established by EPA.



OFFICIAL PHOTOGRAPH NO. 33
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: North

Date: February 07, 2012

Photographer: Leland Meadows

Witness: EPA OSC Eichinger

Subject: One Group Consultants performed activity-based sampling (ABS), Event 5, at the GAO 144 site in the excavated area in order to meet clearance criteria for airborne asbestos fibers as established by EPA.



OFFICIAL PHOTOGRAPH NO. 34
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southeast

Date: February 19, 2012

Photographer: Leland Meadows

Witness: EPA OSC Eichinger

Subject: Winter pressure washes the north concrete pad located east of the excavated area, during site activities.



OFFICIAL PHOTOGRAPH NO. 35
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southeast

Date: February 19, 2012

Photographer: Leland Meadows

Witness: EPA OSC Eichinger

Subject: Geo-Survey, surveyed the site by setting grading stakes with orange flags in the ground at selected elevations based on the Final Grading Plan approved by EPA, W.R. Grace, and DeKalb County representatives.



**OFFICIAL PHOTOGRAPH NO. 36
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: South

Date: February 19, 2012

Photographer: Leland Meadows

Witness: EPA OSC Eichinger

Subject: Geo-Survey, surveyed the site by setting grading stakes with orange flags in the ground at selected elevations based on the Final Grading Plan approved by EPA, W.R. Grace, and DeKalb County representatives.



OFFICIAL PHOTOGRAPH NO. 37
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: South

Date: February 22, 2012

Photographer: Leland Meadows

Witness: EPA OSC Eichinger

Subject: After excavation in the eastern portion of the site and surrounding concrete pad areas, clean borrow pit material was placed and graded. A large pile of mulch was request by DeKalb County for use during final grading and restoration activities. During excavation activities, this pile was covered using polypropylene sheeting.



OFFICIAL PHOTOGRAPH NO. 38
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: North

Date: February 22, 2012

Photographer: Leland Meadows

Witness: EPA OSC Eichinger

Subject: Winter performing restoration activities by adding crush and run concrete aggregate along the service road and entrance to the site.



OFFICIAL PHOTOGRAPH NO. 39
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: Southwest

Date: February 22, 2012

Photographer: Leland Meadows

Witness: EPA OSC Eichinger

Subject: After excavation in the eastern portion of the site and surrounding concrete pad areas, clean borrow pit material was placed and graded.



OFFICIAL PHOTOGRAPH NO. 40
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: West

Date: February 22, 2012

Photographer: Leland Meadows

Witness: EPA OSC Eichinger

Subject: After excavation in the eastern portion of the site and surrounding concrete pad areas, clean borrow pit material was placed and graded.



OFFICIAL PHOTOGRAPH NO. 41
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0156

Location: 1167 Zonolite Place NE
Atlanta, Georgia 30306

Orientation: South

Date: February 23, 2012

Photographer: Leland Meadows

Witness: EPA OSC Eichinger

Subject: One Group Consultants performed activity-based sampling (ABS), Event 6, at the GAO 144 site on the concrete pad areas in order to meet clearance criteria for airborne asbestos fibers as established by EPA.

ENCLOSURE 4
LOGBOOK NOTES
(35 Sheets)

TTEM1

05-001-0156

PRP Removal 144



"Rite in the Rain."

ALL-WEATHER
JOURNAL

No. 390N

Vermiculite
Exfoliation Site

GAO 144

Atlanta, DeKalb Co.,
Georgia

No. 390N #1D JOURNAL - POLY



6 32281 39031 2

[illegible]

Name Tetra Tech EMI (TT) (you)
Edward Meadows

Phone _____

Project ITEM1-05-0001-0156
Vermiculite Exfoliation Site GAO 144 (ATL VERT)
Atlanta, DeKalb County, GA 30306
OSC Terry Stilman and Kevin Eichinger

This book is printed on “Rite in the Rain” All-Weather Writing Paper - A unique paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather. For best results, use a pencil or an all-weather pen.

Specifications for this book

Page Pattern		Cover Options	
Left Page	Right Page	Polydura Cover	Fabrikoid Cover
Lined	Lined	Item No. 390N	Item No. 390NF

10/25/11 Atlanta Vermiculite Tues. yr
 0800; START Meadows mobilizes to the
 Atlanta Vermiculite site located at 1167
 Zonolite Place Rd.

Background: W.R. Grace (Responsible Party)
 owned the property and is currently deeded to
 DeKalb Co. where a community garden is
 currently proposed following excavation and
 restoration of the site. Contractors Winter
 Environmental, URS consultant, One Consulting
 Group have been acquired to perform removal
 activities. Weather: Hi 75°F low 44°F sunny
 - One Consulting Group will be conducting
 background air sampling at the site today
 using electrical powered pumps @ 10 L/min. 4
 locations N, S, E, W were oriented with in the
 extent of the site (plateau).

1000; START Meadows exits the site and mobilizes
 to TT office located in Duluth, GA.

1445; START Meadows mobilizes to Atlanta Vermic-
 ulite site. Meets w/ One Consulting Group rep
 Jack, and discusses progress.

1700; One Consulting Group begins to break down and
 exit. START Meadows exits the site.

yr 10/25/11

10/27/11 Atlanta Vermiculite Thurs. y
 0800; START Meadows mobilizes to the site
 observes air sampling setup and inquires
 about future sampling during removal activities
 5 perimeter and 2 personnel with 1-2 day
 turn around from MAS Norcross, GA.

Weather: Hi 77°F low 49°F sunny
 Meets with OSC Kevin Eichinger. Talked with
 speaking with tentants located along Zonolite Rd.
 including SpaceMax, Animal Hospital/Clinic,
 Midtown Laundry, Auto Parts, DeLong Equipment
 Auto Repairs, Blacksmithing.

START Meadows will speak with Hahashan
 Gardens @ 1100.

1200; START Meadows exits and mobilizes
 to Duluth, GA.

1445. START Meadows mobilizes to site.
 Monitors setup of One Consulting air sampling
 1700; START Meadows exits. *Finch*

y
 10/27/11

10/31/11 Atlanta Vermiculite Mon *ym*

0700; START Meadows arrives on site.

Meets with OSC Karm Erchangen and
RP W.R. Grace Bill Miller, Winter PM

Bront Sasson, One (Jack) air sampling, suns/

Weather: Hi: 63°F Low: 37°F overcast

Winter begins receiving brush cutting equipment

Brush CAT Deere.

0825; Winter begins cutting roadway with

limited PPE. OSC and START mention grabbing
hazards along the berm area and potential for
(plateau)

contact beyond initial testing of equipment. level

C with respirator and tyvek suits will be

required once exclusion zone has been

established with red tape, signage, silt
fencing.

1230; Office trailer arrives on site.

1300; START exits for lunch.

1330; START on-site. Discusses future plans with

OSC and Duwayne Ragdale (Super) for Winter

Environmental. START observes air sampling.

1700; START numbers, Karm Erchangen, and

Winter exit site

ym
10/31/11

11/01/11 Atlanta Vermiculite Tues *ym*

0700; START Meadows arrives on site and meets

with personnel.

Weather: Hi 48°F Low 36°F

Winter will continue placement of exclusion zone
orange fencing and signage. Brush cutting and
removal of vegetation. A concrete base was found
while creating the access road, fabric material,

#4, #1, #56, and crush and run will be
utilized to create road and decor. One Group

will continue air sampling 5 perimeter / 2 personnel.

1000; Large excavator Hertz 225 D LC arrives
on site.

1100; START Meadows off-site.

EPA Erchangen will perform oversight.

ym
11/01/11

11/02/11 Atlanta Vermiculite Wed gn
 0700; START Meadows arrives on site. Winter crew H: S meeting equipment hazards, brushcutting and uneven terrain.

Weather Hi: 65°F Low 40

- Site task include;
 - Establish decontamination staging area for trucks/personnel.
 - Storm water and erosion silt fencing orange 'snow' fencing.
 - completion of vegetation removal.
 - Installation of sediment basin to filter site water prior to discharge into the NW culvert near parking lot.

1400; Crews are finding concrete near the northwest corner of the site and ^{concrete} material scattered along the southern portion in berms and raised elevation.

1600; START Meadows off-site.

gn
 11/02/11

11/03/11 Atlanta Vermiculite Thurs. gn
 0700; START Meadows arrives on site. Winter crew H: S mtg. discuss installation of site controls i.e. fencing signage.

Weather Hi 71°F Low 44°F

0930; Discussion of concrete footings of the former vermiculite exfoliation plant being located within the excavation area/site. START will print documents from office after lunch from previous assessment reports.

1130; START departs site and drives to TetraTech (TT) Duluth office.

START Meadows identifies figures and previous images from historic photos; prints documents and reports for review at the site on 11/4/11.

gn
 11/3/11

11/4/11 Atlanta Vermiculite Fri. *yr*
0700; START Meadows arrives on site.

Winter site preparations continue.

Weather: Hi 61°F Low 43°F

- Site activities:

- Installation of silt fencing (S) border
- Building roadways with rock and crush 'n' run.
- Installation of sump under gravel roadway for truck decan. 3 stage filter system will be used to discharge site water.

Note: on 10/31/11 WSB-TV interviewed OSC

Eichinger, on-site. ran on nightly news.

- Based on historical images from 1955, 1960, 1968, 1972, 1978, 1988, 1993 the old building foundation was superimposed onto an aerial.

This current figure depicts concrete/foundation along the NW perimeter of the site and additional cleared areas to the west and south.

- Based on this additional information and current terrain and topography the pile is estimated to be 2.5 times larger than initially projected.

yr
11/4/11

11/7/11 Atlanta Vermiculite Mon. *y*
0700; START Meadows arrives on site.

Winter site preparations continue; larger concrete pad is revealed/scrapped and is taking longer to install site controls.

Weather Hi 70°F Low 46°F

- START Meadows investigates larger extent of soil pile; based on uneven terrain; stormwater drainage, the pile looks to extend to the southern property boundary and west to the drainage ditch.

- South Fork Conservancy rep. meet OSC

Eichinger on-site to discuss extent of pile and removal of additional vegetation.

DeKalb County rep. and Conservancy would like to save all vegetation that does not have to be removed.

- Winter continues site prep.

1730; START Meadows off-site.

y
11/7/11

11/8/11 Atlanta Vermiculite Tues. *you*

0700; START Meadows arrives on site.

Two data RAMS will be placed out along the North perimeter of the site. Winter will continue/finalize site preparations.

Weather: Hi 69°F Low 47°F

Site activities - Final fencing and signage.

- Construction of gravel roadway and catch basin to the NW corner of the site.

- Winter will begin excavation ~ 20 feet from the NW corner leaving the berm in place until after the plateau is removed.

- A personnel ^{air} sample from 11/3/11 contained 0.00197 fibers/cc; below OSHA 0.1 fibers/cc and PPE protection was worn.

1100; START Meadows departs toward Duluth office to gather additional site analytical and generate parcel figures and analytical figures.

1400; START arrives on site.

- Two representatives from GaEPD, Lead; Asbestos was on site for a tour earlier.

Air Monitoring - NW = 6.86 $\mu\text{g}/\text{m}^3$
EAST = 4.16 $\mu\text{g}/\text{m}^3$

11/9/11 Atlanta Vermiculite Wed *you*

0730; START Meadows arrives on site.

Winter begins excavation, loading, wrapping, decon, and manifest/documentation of removal activities - START collects air particulate dust measurements. One Group collects 5 perimeter/2 personnel for TEM analysis. 2 air samples read on-site for ~~TEM~~ PCM.

Weather: Hi 69 Low 48; lite rain

- Air samples on 11/7/11 personnel 0.001 fibers/cc
- Additional wetting of material is suggested.

- Channel 2 WSB TV on-site to discuss excavation and clean up activities.

- Winter use of ladders to ^{line} ~~load~~ trucks is unsafe.
Truck loads off-site: 12

Air monitoring - NW = 16.25
TWA - ~~6.86~~ $\mu\text{g}/\text{m}^3$
EAST = ~~4.16~~ 7.20 $\mu\text{g}/\text{m}^3$

1700; START Meadows off site.

you
11/9/11

11/10/11 Atlanta Vermiculite Thurs. *yr*
0700; START Meadows arrives on site.

Winter H & S mtg. START suggest use of ladders to EPA Eichinger is unsafe. Winter will acquire scaffolding per EPA request.

Weather Hi : 59°F Low : 43°F windy

- Winter continues lining dump trucks with 6 mil poly, black; loading Asbestos Containing Material (ACM) soil from the NW boundary of the site; into Newsome Trucking dump trucks; sealing the burrito wrap poly with duct tape and spray adhesive; tarping, decon
- pressure washing of exterior of dump truck and tires; manifesting by Bill E. Miller, Grace / Remediation representative; off loading ~1 1/2 hrs. NW of Atlanta at Waste Management facility located in Ball Ground, GA.

Truckloads off-site = 14

1500; Scaffolding is on-site, began placement and approval.

Air Monitoring TWA

NW = 6.52 $\mu\text{g}/\text{m}^3$

EAST = 4.06 $\mu\text{g}/\text{m}^3$

1730; START Meadows off-site.

11/11/11 yr

11/11/11 Atlanta Vermiculite Fri. *yr*
0730; START Meadows arrives on site.

Winter continues excavation.

Weather: Hi 55°F Low 32°F

- START receives figures from GIS dept. submits to OSC Eichinger, Grace Miller and Medlen.
- Improved-use of scaffolding limits possible falling issues.
- Discussions continue with EPA, Grace, DeKalb, Conservancy based on additional removal of vegetation and soil to the W & S.
- START Meadows inspected 4 drums that were MT and vented.

Truckloads off-site = 14

Air monitoring TWA =

NW - 5.08 $\mu\text{g}/\text{m}^3$

EAST - 3.43 $\mu\text{g}/\text{m}^3$

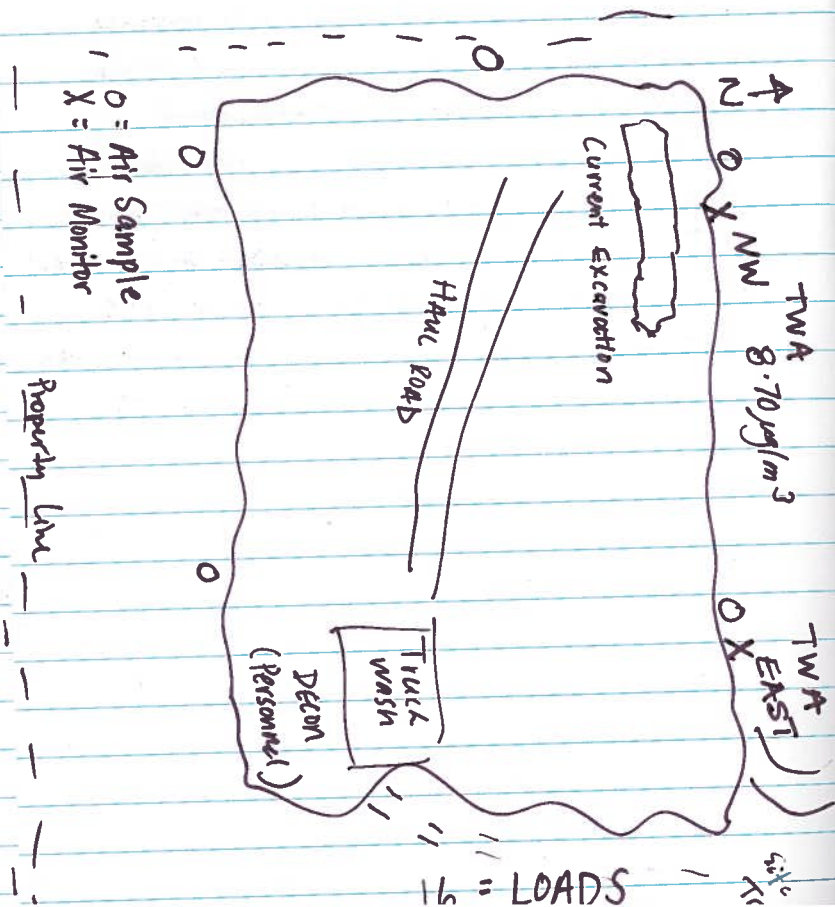
11/11/11 yr

11/14/11 Atlanta Vermiculite Mon. yr
0700; START Meadows arrives on-site.

- Winter will continue site excavation activities

Weather Hi: 76 Low: 51

- Site PCM results continue to be below the action level for perimeter samples and the OSHA PEL 0.1 fibers/cc.



11/15/11 Atlanta Vermiculite Tues. yr
0730; START Meadows arrives on site.

- Winter will continue site excavation activities.

- Note: On 11/14/11, John O'Neill - mamaoneill@comcast.net stopped by the site with concerns because he is a local resident and played on the 'plateau' growing up. He was referred to ATSDR (CDC) by OSC Erchinger for further information / assessment.

- Received and submitted aerial parcel figures.
- URS arrived on-site to collect subsurface / samples to visually look for asbestos along the southern silt fencing; confirmed also w/ historic photos.

Weather: Hi 75°F Low 62°F; late rain
Truckloads off-site = 24

Air Monitoring TWA

NW = 23.97 µg/m³

EAST = 15.67 µg/m³

yr
11/15/11

11/16/11 Atlanta Vermiculite Wed. *you*
0700; START Meadows arrives on-site.

- Winter will continue excavation though heavy rain is expected.

Weather: Hi 73°F Low 55°F; rain

- Based on additional area to be excavated a tree clearing contractor with 40 hr training respirator fit with remove trees and brush.
- Heavy rain no data/HMS
- Limited water needed for misting.
- START mobilizes to QSI warehouse to download data and draft weekly report

TRUCK LOADS OFF-SITE = 24

you
11/16/11

11/17 - 11/18 Atlanta Vermiculite Thurs Fri *you*
START Meadows off-site - HAZWOPER

11/17 - 38 dump trucks off-site

11/18 - 25 dump trucks off-site

11/21/11 Atlanta Vermiculite Mon. *you*
0700: START Meadows arrives on site.

- Winter switcher payment to Newsome to by - the - load instead by - the - hour.
- DeKalb County David Butler and AECOM K Williams contractors arrived on site to discuss final grading plan. START Meadows walked site along western perimeter and southern property boundary. At the SW corner of the property the two stormwater drainage pathways meet. The bridge area is the outfall of the stormwater. AECOM, URJ, One Group will coordinate and provide surveys and grading plans to DeKalb / Conservancy → EPA approval.
- Winter will begin installation of new fencing based on additional extent of contamination.

TRUCKLOADS OFF-SITE : 42

AIR MONITORING NW : 50.06 $\mu\text{g}/\text{m}^3$ * wet
EAST : 2.85 $\mu\text{g}/\text{m}^3$

11/22/11 Atlanta Vermiculite Tues. y

0730; START Meadows arrives on-site.

Winter and Graue continue excavation and manifest documentation.

Weather Hi: 75°F Low: 59°F; rain

- Air sample from the NW corner, perimeter sample result of 0.00065 fibers/cc was observed on 11/21/11.

- 0930; URS Brent Jacobs arrives on site to discuss sampling plans, extent of additional site and scope.

1030; AECOM arrives to stake the area for survey

TRUCKLOADS OFF-SITE = 32

Air monitoring TWA

NW 14.23 $\mu\text{g}/\text{m}^3$
EAST 2.93 $\mu\text{g}/\text{m}^3$

1530; START Meadows off-site

11/22/11

11/23/11 Atlanta Vermiculite wed.

0730; START Meadows arrives on site

- Winter continues to remove ACM and transport to Ball Ground, GA.

Weather Hi 61°F Low 46°F

TRUCKLOADS OFF-SITE: 25

Air Monitoring TWA

NW 3.57 $\mu\text{g}/\text{m}^3$
EAST 1.73 $\mu\text{g}/\text{m}^3$

11/24/11 Atlanta Vermiculite Thurs. y

Thanksgiving Holiday

No Work

11/25-27 Atlanta Vermiculite Fri. y

START Meadows processed expense report

and submitted in Duluth, GA. Also visited

site to inspect PPE and cutting practices.

Additional scaffolding arrived on site. START

observed site operations half days over the holiday weekend. No loads off-site.

cut trees 1 1/2 - 2 feet above the ground surface.

11/27/11

11/28/11 Atlanta Vermiculite Mon. *gm*
 0800. START Meadows observed stormwater
 drainage on-site. Performed documentation activities.

11/29/11 Atlanta Vermiculite Tues. *gm*
 0700; START Meadows arrives on site.

Contractors piled tree logs in four large stacks
 throughout the southern and western portion of
 the site. Winter began expanding exclusion
 zone to the berm along the southern and
 western stormwater pathways. Installation of
 perimeter silt fencing and orange 'snow' fence.

Additional rock and crush-a-run was brought
 in to repair damaged roads from several
 months of rain.

- 55 gallon of solidified material was
 placed on poly and sampled for
 semi volatiles and pest/PkH.
- survey was on-site to

Weather: Hi 40°F Low 36°F rain

Air Monitoring TWA

NW 2.42 EAST

1600; START Meadows off-site. 3.29

gm
 11/28/11

11/30/11 Atlanta Vermiculite Wed. *gm*
 0700; START Meadows arrives on site
 to perform oversight of removal activities
 air monitoring, photo log, log notes, review of
 daily air monitoring data, H&S practices, analytical
 and logistical suggestions.

- Discussions of the berm and clearance
 sampling are weighed by EPA Eichmeyer,
 EPA Friedrichs, Grace Miller, START Meadows.
- ABS ~~data~~ after berm has been taken
 out.
- Bulk samples if any need to be collected,
 at what interval?
- Bulk vs ABS and risk concerns.
- Visual contamination vs ACM

TRUCKLOADS OFF-SITE : 42

Weather: Hi 46°F Low 35°F : partly cloud

Air Monitoring TWA

NW : 8.91

EAST 5.24

1730; START Meadows off-site.

gm
 11/30/11

12/1/11 Atlanta Vermiculite Thurs. *yr*

0730; START Meadows arrives on site.

- Winter continues excavation and soil removal.

Weather: Hi: 59°F Low: 26°F

- One Group continues perimeter and personnel air sampling.
- START collecting perimeter particulate (dust) measurements.
- Geo-Survey arrives on-site to perform perimeter surveying activities.
- Drainage issues along the service road where trucks are entering the access road area has rain and storm water build-up.

TRUCKLOADS OUT: 44

1500-1600 START Meadows off-site.

yr
12/1/11

12/2/11 Atlanta Vermiculite Fri. *yr*

0730; START Meadows arrives on site.

- Winter continues excavation of elevated, sloped plateau area (NW corner).

Weather: Hi 63°F Low: 28°F

- START conducts air monitoring
 - One Group performs routine air sampling of perimeter and personnel.
- 1400; Site meeting with DeKalb Co. - D. Bultek
- URS - Brent Jacobs
 - AECOM - Kerry Williams
 - EPA - Terry Stilman
 - START - Leland Meadows
 - GRACE/Remediation - Bill Miller
 - Winter - Dwayne Ragsdale
 - South Fork Conservancy - Susan Strickland
- Discussed final site grading and restoration activities,
 - Waste Management electronic tracking/disposal spreadsheet.

TRUCKLOADS OFF-SITE: 30

yr
12/2/11

12/5/11 Atlanta Vermiculite Mon. *gm*
0730; START Meadows arrives on-site.

- Winter continues excavation and removal activities.

Weather: Hi: 68°F Low: 51°F

- Tree chipping began
- Winter continues removal toward the south.

1530; A main hydraulic line on the excavator burst. Winter managed the small quantity of fluid and called Hertz mechanic out to repair.

TRUCKLOADS OFF-SITE: 41

gm
12/5/11

12/6/11 Atlanta Vermiculite Tues. *gm*
0730; START Meadows arrives on-site.

- Winter awaiting Hertz mechanic; Winter performs site walk and maintenance.

- Chipping continues

Weather: Hi: 66 Low: 55°F; rain

0900, Hertz mechanic on site; repair complete.

- Winter began removal activities.

- Note: 12/2/11 - Tremolite on NW perimeter. START suggested more misting of excavation activities.

- Chipper belts broke; will replace tomorrow.

TRUCKLOADS OFF-SITE: 43

gm
12/6/11

12/7/11 Atlanta Vermiculite Wed. yr
0730; START Meadows arrives on-site.

- Observes Winter managing stormwater from the night's rain and current conditions.

1000; START Meadows received Viper telemetry system from ERT; Edison, NJ. START Meadows connects to OSI warehouse DataRAMs for testing.

Weather: Hi: 55°F Low: 37°F; rain

- Winter brought in crush and run and rock to improve the service road and site access road during stormwater management activities.

1200; START to download data.

TRUCKLOADS OFF-SITE: 0

J
12/7/11

12/8/11 Atlanta Vermiculite Thurs. yr
0730; START Meadows arrives on site.

- Winter will conduct / resume removal activities.

Weather: Hi 51°F Low 32°F; sunny

- START conduct air monitoring
 - One Group conducts air sampling.
 - Winter excavating soil / ACM-like material along the western portion of the initial extent.
 - Winter completed re-installation of fencing; perimeter.
- 1030; A different hydraulic line ruptured on the excavator. Winter halts removal activities.

TRUCKLOADS OFF-SITE: 15

- START discontinues air monitoring and performs documentation activities.

J
12/8/11

12/9/11 · Atlanta Vermiculite Fri. *yu*

0730; START Meadows arrives on-site.

- Winter performs removal activities.

Weather: Hi 54°F Low 36°F

- START coordinates the delivery of data to upload to Viper telemetry system. Set up email address and threshold; warning and alarm settings.

- Winter completes removal of initial elevated, sloped plateau area; begins working eastward toward the concrete pad area.

TRUCKLOADS OFF SITE: 45

1600; START Meadows off-site.

yu
12/9/11

12/12/11 Atlanta Vermiculite Mon. *yu*

0730; START Meadows arrives on-site.

- Winter performs removal activities on the concrete pad areas.

Weather: Hi 48°F Low 42°F

- Winter clears off - concrete pad

- Two separate pad areas

1. north

2. south

and places a large amount of mulch on poly. TRUCKS OUT: 48

12/13/11; OSC and START on-site 0730.

1300; OSC Eichinger and START Meadows

observe additional scaffolding beams missing for easier access in and out of trucks. OSC recommends replacement of most of the beams; thus improving safety measures.

TRUCKLOADS OUT: 48 47
y

yu
12/12/11

12/14/11 Atlanta Vermiculite ^{Wed.} ~~Tues.~~ ^{yes}

0730; START Meadows arrives on site.

- Winter continues excavation in the center of the site.

Weather: Hi 68°F Low 42°F

0800; Neff Rentals arrived on site to discuss hydraulic problems with the excavator with Winter - Dwayne.

1030; EPA Superfund Division Director Franklin Hill, EPA Technical Services Branch Chief Glen Adams, EPA Toxicologist Tim Fredrick, EPA Geologist Ben Bentkowski, EPA OSC Eichinger and START discussed confirmation air sampling and bulk analysis. The plan will coincide with DeKalb Co. / South Fork Conservancy's conceptual plan for the area. Also discussed stormwater management on-site and off-site along the service road.

TRUCK LOADS OUT : 50

1600; off-site.

12/14/11

yes

12/15/11 Atlanta Vermiculite ^{Thurs.} ~~Wed.~~ ^{yes}

0700; START Meadows arrives on-site.

- Winter continues removal operations.

Weather: Hi 70 Low 46

- OSC Eichinger and START Meadows discuss additional misting, maintenance of water hoses, and position of bucket / sprayer during removal activities adjacent to excavation pits / elevated pad areas.

- Discussed quicker turnaround on results for perimeter / personnel samples based on 0.00073 fibers / cc reading previously recorded. Result is below site-specific 0.02 f/cc action level.

TRUCK LOADS OFF SITE : 46

12/15/11

yes

12/16/11 Atlanta Vermiculite ¹⁷¹ ~~Thurs~~ _y ye
0730; START Meadows arrives on site.

- Winter continues removal activities.

Weather: Hi 71°F Low 48°F

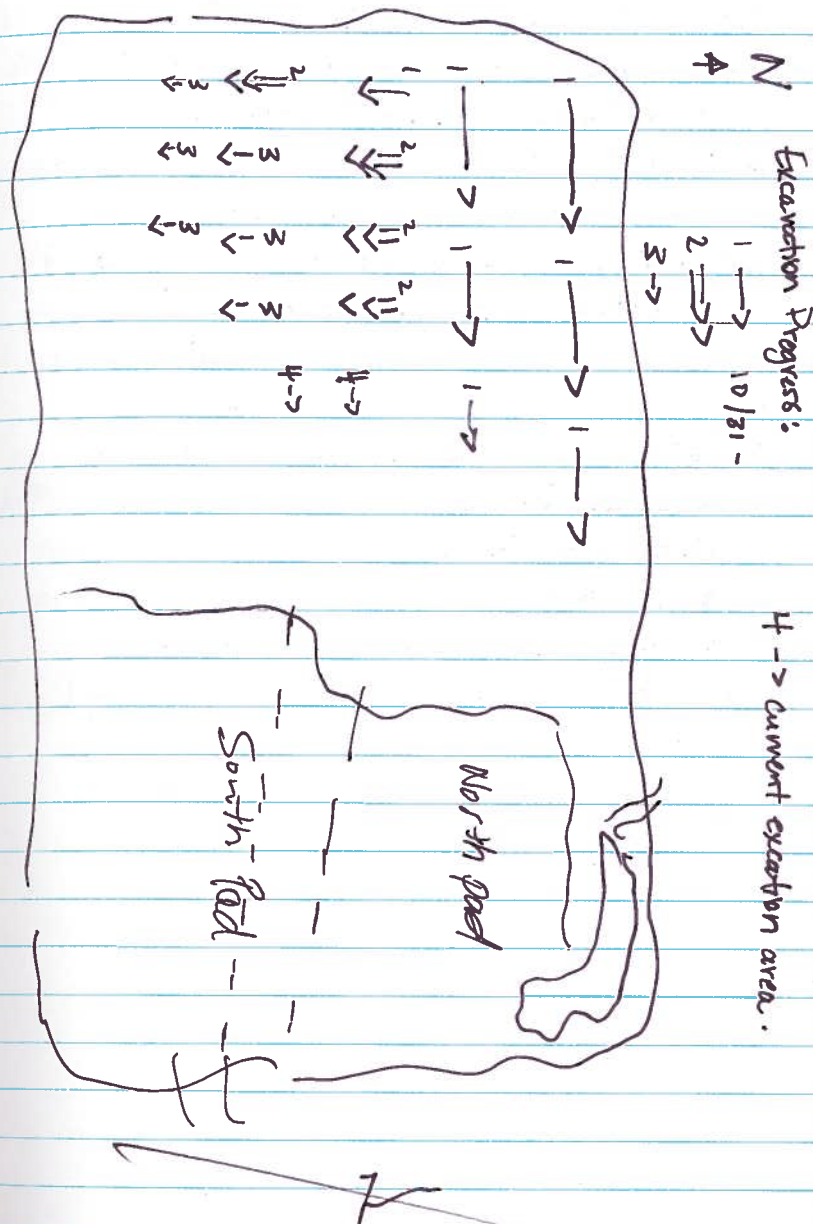
- Winter excavates the center of the site
working their way EAST. →

- Improved spraying / misting.

= DeKalb Co. Natural Resources, David Butler
and Susan South Fork Conservancy on-site to
discuss and establish final grading plan,
wetland area, garden concept with AECOM
representatives.

TRUCKLOADS OFF SITE: 52

~~ye~~
12/16/11



12/19/11 Atlanta Vermiculite Mon. *yu*
0730; START Meadows on-site.

- Winter continued removal activities -

Weather: Hi 59°F Low 30°F

0845; START Meadows observes 2 males removing
rip-rap for the northern property manager. The
individuals instructed that respiratory protection
is required due to possible asbestos exposure.

OSC Eichinger was informed and the property
manager was notified.

1400:

- OSC Eichinger and START Meadows met
with members of the South Fork Conservancy (
Susan and Sally).

- Awaiting final grading plan.

TRUCKLOADS OFF SITE: 43

yu
12/19/11

12/20/11 Atlanta Vermiculite Tues. *yu*
0730; START Meadows arrives on site.

- Winter continues removal activities.

Weather: Hi 59°F Low 45°F; 0.30"

- During review of air sample analysis,
0.00073 f/cc was detected; below the
site specific action level of 0.02 f/cc.

1400; URS performs collection of perimeter
samples near the berm of the south, west,
and northern stormwater drainage ditches.

TRUCKLOADS OFF SITE: 54

y
12/20/11

12/21/11 Atlanta Vermiculite Wed. *yn*
0730; START Meadows arrives on site.

- Winter continues excavation activities.

Weather: Hi 64°F Low 55°F; 0.97"

- One Group on site.
- Rainy conditions expected later this afternoon.
- One personnel sample 0.00099 f/cc; below 0.1 OSHA worker and 0.02 f/cc site-specific.

1400; START off site.

12/22/11 Atlanta Vermiculite Thurs. *yn*
0730; START Meadows on-site to observe storm water management activities. Crush; run and additional stormwater controls measures were utilizing to improve the haul roads and on-site/off-site controls. *yn*

12/23/11 Atlanta Vermiculite Fri. *yn*
0730; START Meadows on-site.

- Winter continued excavation activities.
- Issues with excavator

TRUCKLOADS OUT: 34

12/24/11 *yn*

12/27/11 Atlanta Vermiculite Tues. *yn*
0730; START Meadows on-site to observe storm water conditions on site.

- START Meadows at site.

12/28/11 - - Wed. *yn*

0730; START Meadows on-site.

- Winter continues removal activities.

Weather: Hi 52°F Low 41°F; 1.09" rain

- Received draft final grading plan

- Received replacement excavator

- Discussed sampling plan (air sampling and bulk analysis) w/ Miller and Jacobs.

+ URS will submit

- Awaiting prelim bulk analysis.

TRUCKLOAD OUT: 43

- Verbal on 6 bulk perimeter samples via preliminary results. NO ASBESTOS OBSERVED

12/27/11 *yn*

12/29/11 Atlanta Vermiculite Thurs. *ye*
0730; START Meadows arrives on-site.

- Winter pumps and filters on-site water
- Performs excavation near the south pad.

Weather: Hi 55 Low 27

- No site issues.

TRUCKLOADS OUT: 51

12/30/11 - - - Fri. *ye*

- Winter continued pumping the on-site stormwater → off-site / dust suppression.

Weather: Hi 62°F Low 34°F

- Almost completely removal of the western extent of the north and south pads.
- Site thoughts to create berm, backfill, borrow pit material testing / approval and cross-contamination measures.

- Perimeter 0.00098 \pm 10c

Below site-specific
0.02 \pm 1/c

ye
12/30/11

1/3/12 Atlanta Vermiculite Tues. *ye*
0730; START Meadows arrives on-site.

- Winter continues excavation near the north and south pad.

Weather: Hi 33°F Low 21°F

- No issues.

TRUCKLOADS OFF-SITE: 48

1/4/12 - - - Wed. *ye*

0730; START Meadows arrives on-site.

- Winter continues excavation activities
- URS collected one - 5 point composite sample from the south pad @ 3-miles
- 6 inches bgs. (concrete) and one grab bulk soil sample from the "OPEN" area (or notch) / exposed portion.

Weather: Hi 51°F Low 22°F

- TRUCKLOADS OFF-SITE: 49

- Received draft grading plan from AECOM / DeKalb Co.

ye
1/4/12

1/5/12 Atlanta Vermiculite ^{Thurs. Intest.} ~~Intest.~~ ^{yr}

0730; START Meadows arrives on site.

- Winter continues removal activities.

Weather: Hi 58°F Low 31°F

- One Group collected 8 grab bulk soil samples from the wooded area and small berms (EP1-1 through EP1-8); located NE of the site. 0-6 inches bgs.

- Dwayne observed additional suspect material (reddish, dark brown, and brown) along the sidewall of the north and south pad.

- Material will be sampled and submitted to MAS for asbestos analysis.

TRUCK LOADS OFF SITE : 51

~~yr
1/5/12~~

1/6/12 Atlanta Vermiculite ^{Thurs. Intest.} ~~Intest.~~ ^{yr}

0730; START Meadows arrives on site.

- Site restructuring and transition; movement of scaffolding and scrapped the north and south pads.

Weather Hi 65°F Low 29°F

- The 3 soil samples of suspect material collected from the excavation pit were submitted. 24 hr TAT.

- URS collected 2 additional samples from 'veins' of vermiculite-like material near the sidewall of the north and south pad areas. The samples were submitted @ 1300. 24 hr TAT.

- EPA requested that START Meadows collect a co-located sample (from the same 'vein' along the north and south pad. START Meadows submitted the samples to BATHA of Delaware., TEM analysis 72 hr TAT

ATW-SW-01

North sidewall

0.02%; 0.41% LA

0.43

* Re-excavate and ^{resample} *

ATW-SW-02

South sidewall

Trace results

Chn 1; LA

1/9/12 Atlanta Vermiculite Mon. yr

0730; START Meadows arrives on site.

- Winter continues removal activities.

- One Group continues air sampling.

Weather: Hi 66°F Low 52°F

- Winter nearing completion of the excavated pit area; maybe 2 more days.

TRUCKLOADS OFF SITE: 48

1/10/12 — — — Tues. yr

0730; START Meadows arrives on site.

- Winter begins bringing in fill dirt to assist with building the berm back to hold stormwater in the drainage creek along the north and west portions of the site, since samples collected underneath the berm (CB-1 through CB-6) were clean and demonstrated Winter effective cleanup down to native clay.

Weather Hi 63°F Low 54°F; 0.33 inches rainfall

TRUCKLOADS OUT: 9

1/10/12

1/11/12 Atlanta Vermiculite Wed. yr

0730; START Meadows arrives on site.

- No site work.

- START observed messy haul road and water (standing) in multiple locations.

- Weather Hi 63°F Low 48°F

0.08 inches rain

1/12/12

Thurs

0730; START Meadows arrives on site.

- Weather: Hi 58°F Low 29°F 0.01 rain

Winter began preparation to pump the storm water / groundwater intrusion from the base of the excavation pit. The final loads of ACM material are being loaded out. 1 load of fill material arrived on site. Clean staged soil from the south pad was used to create the road way along the northern berm. No staged soil on site. Preliminary results for 8 bulk samples from the berms located between the NW corner of the silt fence and the trailer were non-detect. START collected 2 sidewall samples from the north pad (ATV-SW-01) and south pad (ATV-SW-02)

Time: 1600 3-6 inches of rain 1610

1/12/12 cont'd Atlanta Vermiculite Thurs

- Current Issues

+ Air monitoring was setup late due to lack of communication with Air Consultant One Group and removal contractor Winter. Limited amount of material was removed prior to J. Freeman arrival.

+ OSC Eichinger and START Meadows observed pier housekeeping operations between clean fill dirt and ACM soil being staged. ++ Suggestions of segregation, scrapping the area, and removal of final material were forwarded to Grace and Winter representatives.

- Soil from 2 borrow pits are too wet - more rain on-site today. Dwayne will stop by the Newsome borrow pit in the morning to see if material is suitable for transport, otherwise the crew will attempt to drain the excavation pit and perform surveying activities.

Current Thoughts:

To sample ~ 3 ft below concrete pad to identify whether ACM exists

1/12/12

1/13/12 Atlanta Vermiculite

0730; START Meadows arrives on-site.

- Winter continues removal activities.

Weather: Hi 36°F Low 25°F

- Winter began excavation of the northern berm

- Scaffolding moved outside exclusion zone to load trucks more efficiently -

- OSC Eichinger hosted meeting with EPA, START, DeKalb Co., the South Fork Conservancy, W. R. Grace, and Winter; ACCOM URS, Billy, Bob, Sharon, Peage, John, Sally, Dustin, Miller, Stilman, Brawner, Butler, Williams, Mayer, Medler and Jacobs; to discuss site status (removal operations, safety) bulk sampling ABS sampling, concrete pad and additional grading proposed(s).

TRUCKLOADS OFF SITE: 19

- START sample results for sidewall sample

1/13/12

1/16/12 Atlanta Vermiculite mon. ym
0730; START Meadows arrives on site.

- Winter continued transferring water off-site.
Weather Hi 55°F Low 31°F

- Susan and Billy met with Miller to discuss lowering the grade along the northern ditch line to allow more stormwater to enter the site.

- START and UKS collected and split 4 composite samples. The site was separated into 50' grids. 0-6 inch bgs separated into 50' grids. 0-6 inch bgs
[diagram: a 2x2 grid of dots] 'domino'. GPS points collected Trimble.

1300	P-13 - Composite	P-13 - grab	1210
1310	P-18 Composite	P-15 - grab	1200
1320	P-23 Composite	P-16 - grab	1220
1330	P-28 Composite	P-18 - grab	1240
		P-20 - grab	1230
		P-21 grab	1250
		P-23 grab	1320
1330	P-27 grab	P-24 grab	1300
1410	P-28 grab	P-25 grab	1310
1350	P-29 grab	P-26 grab	1340
1400	P-30 grab		
1430	P-31 grab		
	P-32 grab		

1/16/12 Atlanta Vermiculite mon. ym

- Samples will be submitted to MMS and BATTA.

- Split samples.

- Composites will be run 1st.

if greater than ~~0.0~~ ym

0.25% bulk soil analysis
by TEM

individual aliquots will
be run.

ym
1/16/12

1/17/12 Atlanta Vermiculite Tues *gn*

0730; START Meadows arrives on-site.

- Winter perform site maintenance and repair to existing haul road / berm.

Due to the soft terrain approaching groundwater, larger stone was brought in to 'bridge the gap' between loads of regular fill; strengthen the base of the excavation pit in the NW corner of the site.

Weather: Hi 62°F Low 48°F 0.45 inches rainfall

- Surface water was removed and transferred off-site.
- Southern pad was restocked with borrow pit material on poly plastic sheeting.

gn
1/17/12

1/18/12 Atlanta Vermiculite Wed. *gn*

0730; START Meadows arrives on-site.

- Winter continues to bring in crushed rock / soil clean from Newsome borrow pit to create haul road that will extend from the northern perimeter and make a circle surrounding the excavation pit.
- A larger base material (stone), clay layer of borrow pit material, fabric and crush and run was used to create the haul road.

- Transfer stormwater off-site.

Weather: Hi 54°F Low 33°F

- URS and START Meadows collected 5 aliquot soil grabs from underneath the southern pad from 1.5 - 3 ft. and an additional aliquot from the 'notched' open area in the south pad. 5 aliquots will be composited and submitted to hold and analyze the composite and 1 individual aliquot first.

NE aliquot water @ 1.5 ft.; SW aliquot 2.5 ft small flakes; SE aliquot 100% crushed rock native groundwater, center 2.0 ft small flakes crushed rock and groundwater, and open area

1/18/12 Atlanta Vermiculite Wed. *gn*
 0-1.5 ft ACM-like and 2.0 was crushed rock
 ground water. There is a lot of rock at 1-1.5 ft
 from the center point, east.

CPI-3 Comp - composite approximately 3'

CPI-1 - composite aliquot (grab)

-2

-3

-4

-5 - composite aliquot (grab)

-6 - grab

gn
 1/18/12

1/19/12 Atlanta Vermiculite Thurs. *gn*
 0730; START Meadows arrives on site.

- Winter began excavation of the northern berm / drainage ditch line.
- Winter will proceed NW, W, the SW around the berm / drainage ditches.
- Transferring surface water
- START samples (7 = 1 composite 5 aliquots (hold) 1 'open' area sample for overnight delivery to T&T.
- Grace samples (1 composite and 1 open area were non-detect.

TRUCKLOADS OFFSITE: 25

Weather: Hi - 54°F

Low - 28°F

0.08 inches rainfall

gn
 1/19/12

1/20/12 Atlanta Vermiculite Fri. y
0730; START Meadows arrives on site.

- Winter continued excavation activities along the northern drainage ditch.

Weather: Hi 56°F Low 43°F 0.18" rainfall

- Continued construction of haul road towards the NW corner of the site.
- Continued to bring in concrete / fill dirt.

TRUCKLOADS OFFSITE 25

1/21/12 — — Sat. y

1630; Massive rain event. All of excavation area and haul road is underneath road way

Weather Hi 63°F Low 48°F

Rain amount: 1.27 inches

1/21/12

1/23/12 Atlanta Vermiculite Mon y
0730; START Meadows arrives on site.

- No air sampling by One Group.
- Due to heavy rains a pumping system was deployed by Winter to mitigate the stormwater conditions of the site. 2 - 2 inch and 2 - 3 inch pumps were used to discharge surface water; through geo-membrane filter sock.

Weather: Hi 52 Low 42; 0.55 inch rainfall

1/24/12

Tues y

0730; START Meadows arrives on site to observe filtering and discharging operations.

- Winter continues to pump / filter / discharge.

Weather Hi 61°F Low 43 sunny

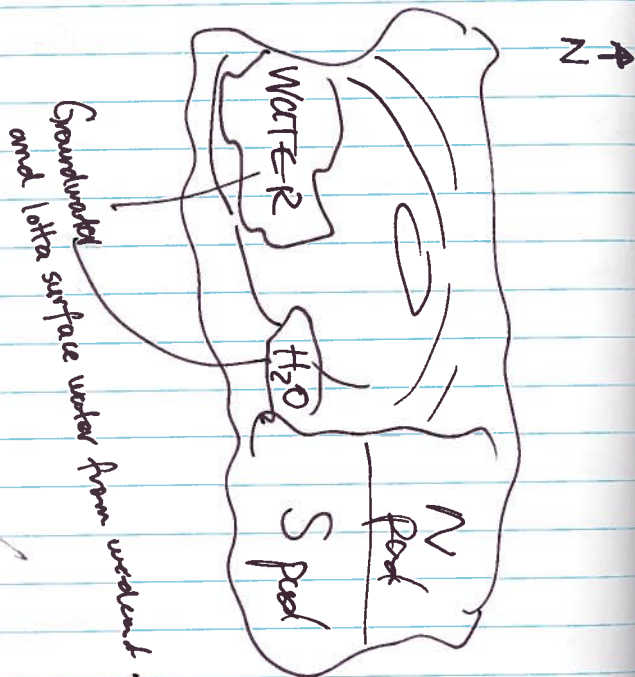
1/24/12

- Winter crews still pumping but will begin excavation activities @ lunch time or there after.

Weather: Hi 64 Low 35

- Crews continue pumping in selected low areas, (see figure below)
- Discussed sampling w/ Grace Miller / EPA Stillman

TRUCK LOADS OUT: 17



1/26/12 Atlanta Vermiculite Thurs. you

0730; STACT Meadows arrives on site

- Winter crew continues pumping selected areas and removal activities along the drainage ditches, N, W, toward S. "9"

Weather Hi 69 Low 53; 0.49" rainfall

- EPA Eichinger, EPA Fredricks, STAT
Mayer, Meadows, and Grace Miller
discuss ABS sampling protocols, including
procedure, selected areas, and TAT (2 day)

- START and URS split north pad samples from ~3 ft. bgs (concrete pad).

- + Groundwater was generally encountered @ 2.0 ft.
- + 1 aliquot from the composite was not collected / submitted.
- + 4 aliquots and 1 composite was submitted to MAS/BATTA.

NCP-Comp 3'

NCP-1

- 2

-3

-4

TRUCKLOADS OUT : 27

1/27/12 Atlanta Vermiculite Fri. *yn*
0730; START Meadows arrives on site.

- Winter continues pumping in selected low areas.
- EPA Stilman on site to discuss site operations and overview of ABS sampling procedures.
- Generation of sampling plan by START
- Shipped samples for 5 day turn (N fed).
- Grace Miller finalizing grading plan.
- Install rip rap vs geo matting.

Weather Hi 61°F Low 42°F

- START discussed BATIA error of 10 additional soil analysis from aliquot samples from the the base of the excavation pit with OSCs Stilman and Eichinger. Based on the quick turn and usability of the data Tetra Tech / EPA incurs 50 % for 10 samples. L. Meadows instructed lab to initially hold aliquots prior to analysis; that contact with field personnel was necessary to analyze samples on hold.

6 TRUCKLOADS OUT 1. *yn*
1/27/12

1/30/12 Atlanta Vermiculite Mon. *yn*
0730; START Meadows arrives on site.

- Winter continues pumping excavation pit in selected low areas.
- Crush and run was applied to the service road.
- OSC Eichinger observed dusty conditions due to dry borrow pit material and dump trucks travelling at moderate speed.
- Winter directed water truck to disperse H₂O and established a 5 mph on site restriction for trucks.

TRUCKLOADS OFF SITE: 52

Weather Hi 60°F Low 28°F

yn
1/30/12

1/31/12 Atlanta Vermiculite Tues. Ygr
0730; START Meadows arrives on site.

- Winter performing excavation along the SW corner of the excavation pit / drainage ditch.

Weather: Hi 65°F Low 33°F

- EPA, URS, START, and Grace, One Group discuss ABS sampling procedures based on driver conditions at the site; sampling will occur in three selected areas, approx equal square footage, for 40 minutes, in each location then rotate for 120 minutes.

TRUCKLOADS OFFSITE: 63

Ygr
1/31/12

2/1/12 Atlanta Vermiculite Wed. Ygr
0730; START Meadows arrives on site.

- Winter continues excavation of debris material berm / drainage ditch along the southern perimeter of the site.

Weather Hi 78-64° Low 39-46° as 5"

- Received samples results for south pond composite 0.18%
open 'notch' 0.23% LA
- Grace will excavate under direction of Bill Miller, to improve safety objectives and clean completeness. Though, results are below 0.25% asbestos.
- Discussed PLM vs TBM comparison values and detection limits. EPA will continue to split samples and conduct ABS sampling for clearance.

TRUCKLOADS OUT: 43

2/1/12 Ygr

2/2/12 Atlanta Vermiculite Thurs. *gm*
0730; START Meadows arrives on site.

- Winter completed berm removal now begin more intensive removal of stormwater drainage way to clean clay fill.

Weather Hi 66 Low 45

TRUCKLOADS OUT: 43

2/3/12 Fri. *gm*
0730; START arrives on site.

Weather: Hi 60 Low 41

- Winter excavates stormwater ditch along the western bank and SW corner;
- Winter brought in fill to reconstruct the northern bank.
- Began widening haul road in NW corner.

gm
2/3/12

2/6/12 Atlanta Vermiculite Mon. *gm*
0730; START Meadows arrives on site.

- Winter continued removal and reconstruction efforts along the western and SW storm water drainage ditch
- Winter excavated more than 10 ft. along the concrete pad (N) allowing URS and START to resample the sidewall; prior to leaving the pad in place.

Weather: Hi 55 Low 42

- START and URS split one grab side wall sample from the northwest corner of the north pad area. concrete base and soil mixture / aggregate base. 2 day TAT.

TRUCKLOADS OFFSITE: 55

gm
2/6/12

2/7/12 Atlanta Vermiculite Tues. yr
0730; START Meadows arrives on site.

- Winter removed additional material adjacent to the north pad along the excavation pit.

- Personnel on-site to perform ABS sampling

Weather Hi 60 Low 37

1300: One Group

3 participants taking 3 separate distinct areas; for 40 minutes each then rotating (twice)

total: 120 minutes; wearing and donning LEVEL C

APR and equipment (1 10L) and min

1 ~ 2-4 L/min pump and one set

set of Tetra Tech (EPA supplied pumps

1 10 L/min and 1 2-4 L/min pump

and duplicates (see CEC for naming and times; calculators,

1500; Discontinued One Group collected one PLM bulk material sample for asbestos analysis at MAS.

2/7/12

2/8/12 Atlanta Vermiculite Wed. yr
0730; START Meadows arrives on site.

- Winter began removal of the ACM-like material surrounding the south pad and began removal of the sediment basin along the north pad.

- START discussed sampling procedures with Grace Miller including ABS of the area.

TRUCKLOADS OFFSITE: 35

2/9/12 Atlanta Vermiculite Thurs. yr

Weather Hi 52°F Low 35°F

0730; START Meadows arrives on site

- Winter performs removal of material surrounding the south pad and the north pad.

- Discussed sampling procedures with OSC Eichinger and Grace Miller (backfill areas surrounding pads and entrance road after ABS).

- Notice for START to demob on Friday, 2/10/12.

TRUCKLOADS OFFSITE: 24

2/10/12 Atlanta Vermiculite Fri *yn*
0730; START Meadows arrives on-site.

- Winter performs site cleanup activities and removal of areas surrounding the north and south pads.

Weather Hi 50°F Low 35°F

- Tetra Tech START Meadows received preliminary results to (ND) backfill the excavation pit.

TRUCKLOADS OFF SITE: 26

- Site operations include
 - backfilling and grading excavation pit
 - ABS sampling
 - backfill concrete pad areas hydroseed

- START off-site (DEMOBILIZED)

yn
2/10/12

2/23/12 Atlanta Vermiculite Thurs. *yn*
0830; START Meadows arrives on-site.

- Begins prep for ABS sampling of the concrete pads.
- One Group three (3) participants will sweep the concrete pads for 40 minutes (2) turns rotating for a total of 120 minutes: (see COC and table for details field sheet). START collects duplicate and 1 sample per participant 1 10L / 1 2-4 c/mole.
- One Group collected one composite bulk sample for PLM analysis. ¹ submitted to MAS

Weather Hi 75°F Low 57°F

- Await results.

- START off-site.

yn
2/23/12

02/24/12 Atlanta Vermiculite Fri. y

Weather: Hi 70°F Low 43°F

0830: Arrive at site: perform walk through.

0900 - START Meadows, ¹Mayon and OSC

Stilman perform sediment sampling
in the Peachtree Creek, South Fork.

0935 - Location 3 (G144-BS-C-03)

1000 - Location 2 (" " -02)

1020 Location 1 (" " -01)

1030 - Location ϕ (Background)

- START reports the site samples
will be submitted for TBM analysis
by BATA Labs.

y

2/24/12

ENCLOSURE 5
TABLE OF WITNESSES
(One Page)

TABLE OF WITNESSES
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