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ENVIRONMENTAL SERVICES

Mr. Mike Boudloche, Trustee
555 N. Carancahua, Suite 600
Corpus Christi, TX 78478

Subject:
Asbestos Inspection Results
Encycle Facility
5500 Up River Road
Corpus Christi, Texas

Date
December 14, 2006

Contact:
Ken J. Brandner

Extension:
361-883-1353, ext. 16

Dear Mr. Boudlache:

This letter report presents the results of an asbestos inspection conducted during November and December 2006 at the Encycle facility located at 5500 Up River Road in Corpus Christi, Texas. The asbestos inspection was conducted at the 51 buildings located at the facility. Building locations are shown on Figure 1.

The scope of the inspection initially involved visual examination of each building to identify suspect asbestos-containing material (suspect ACM). Following the visual examination, samples of each homogeneous area of suspect ACM were collected for asbestos analysis. The results of the asbestos inspection are detailed below.

Visual Inspection

Prior to collection of samples for asbestos analysis, a visual examination of all 51 site buildings was conducted by Kenneth J. Brandner, a Texas Department of State Health Services-licensed asbestos inspector (License Number: 20-5050). All accessible portions of the building interiors and exteriors were visually examined to identify suspect ACM. A total of 35 homogenous areas of suspect ACM were identified in the buildings, and a description of each homogenous area of suspect ACM is provided on Table 1.

As part of the visual examination, each homogenous area of suspect ACM was assessed to determine if the material was friable. Friable is defined in 40 Code of Federal Regulations (CFR) Part 763.83 as "material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes previously nonfriable material after such previously nonfriable material becomes damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure." The results of the friability determination are provided on Table 1. As shown on Table 1, several homogenous areas of suspect ACM at the facility were friable (fibrous pipe wrap, boiler insulation, ceiling tiles, fibrous thermal system insulation).

Suspect ACM Sample Collection

A total of 188 samples were collected for asbestos analysis during November and December 2006 (Sample IDs: A-1 through A-188). As specified in 40 CFR Part 763.86, at least three samples of each homogenous area of suspect thermal system insulation and suspect miscellaneous materials were collected for asbestos analysis. The number of samples collected from suspect surfacing materials was dependent on the area of the surfacing material. At least three samples were collected from suspect surfacing materials with an area of 1,000 ft^2 or less, at least five samples were collected from suspect surfacing materials with an area between 1,000 ft^2 and 5,000 ft^2, and at least seven samples were collected from suspect surfacing materials with an area greater than 5,000 ft^2. The suspect ACM sample locations are shown on Figure 2.

Each sample was collected by spraying the sample area with a wetting agent, and collecting each sample using new gloves and a new knife blade. Each sample was placed into a labeled plastic bag, then sealed and placed into a second labeled plastic bag. The samples were shipped to a Texas Department of State Health Services-licensed asbestos laboratory for asbestos analysis. Following sample collection, the sample areas were patched using duct tape and/or asbestos-free spackling.

A homogenous area is defined in 40 CFR Part 763.83 as "an area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color and texture." During the asbestos inspection, it was observed that several homogeneous areas of suspect ACM are present in more than one building at the facility, including black "galvestos" surfacing material on building exterior walls and roofs; linoleum floor covering; baseboard; floor tiles; ceiling tiles; pipe wrap; air duct insulation; sheet rock/gypsum board walls; asphalt roofs; and tar and gravel roofs.

During the inspection, pink, orange, and/or yellow fibrous thermal system insulation labeled "fiberglass" was observed in several of the buildings, including Facility No. 1, Facility No. 2, and Facility No. 3. Fiberglass is not suspect ACM (40 CFR Part 763.86), and therefore materials labeled "fiberglass" were not sampled.

Asbestos Analytical Results

Each sample was analyzed for asbestos using polarized light microscopy (PLM). The presence of asbestos in Sample A-162 was also verified using asbestos point count analysis. Asbestos analytical results for each sample are summarized on Table 1, copies of the analytical laboratory reports are provided in Attachment 1, and photographs of the asbestos-containing materials are provided in Attachment 2.

As shown on Table 1, 13 homogenous areas of asbestos-containing materials were identified in the buildings as follows:

- Black, non-friable, 1/16 to 1/8-inch-thick, black coating (galvestos) on metal walls, roofs, I-beams, and pipes (Homogeneous Area 1 on Table 1): Black galvestos coating (1/16" to 1/8"-thick) is present on the exterior metal walls, metal roofs, steel I-beams, steel pipes, and/or concrete pillars of several buildings, including Facility No. 1, Facility No. 2, Facility No. 3, East Product Storage Building 5, the Old Casting Building, the Sanitary Wastewater Building, the Product Storage Bins Numbered Bins Building, the Lettered Bins Building, the East Cell House, Building 17, Building 20, Building 24, the Power House, the West Cell House, the Reagent Storage Building, and the Zinc Building (see Attachment 2, photographs 1 through 5). In addition to the galvestos coating in the buildings listed above, two large steel tanks on the north side of Facility No. 1, and two large steel tanks on the west side of Facility No. 2 contain galvestos coating (see Attachment 2, photograph 6). A total of 20 samples of the black galvestos coating were collected for asbestos analysis (Sample IDs: A-1, A-2, A-3, A-19, A-28, A-41, A-56, A-57, A-61, A-63, A-68, A-69, A-79, A-85, A-86, A-88, A-92, A-94, A-116, A-121), and all 20 samples contained asbestos. The black galvestos coating was not friable, but was damaged (tears, holes).

- Brown linoleum floor covering (Homogeneous Area 3 on Table 1): Brown linoleum floor covering (1/8"-thick) is present in the offices on the 2nd floor of Facility No. 1, the 2nd and 3rd floors of Facility No. 2, the 5th floor of Facility No. 3, the 2nd floor of the West Cell House, the 1st floor at the south-center end of the Reagent Storage Building (Building 28), and the 2nd floor of the Admin Building and Lab (see Attachment 2, photographs 7 and 8). Six samples of the brown linoleum floor covering were collected for asbestos analysis (Sample IDs: A-7, A-8, A-9, A-20, A-126, and A-155), and all six samples contained asbestos. The brown linoleum floor covering was not friable and not damaged.

- Pipe wrap with white fibers and outer black tar jacket (Homogenous Area 5 on Table 1): Pipe wrap with 1" to 2"-thick white fibers and an outer black tar jacket are present on pipes ranging in diameter from ½" to 8" in Facility No. 1, Facility No. 2, Facility No. 3, Facility No. 4, the Old Casting Building, the East Cell House, the West Cell House, the Admin and Lab Building basement, the east Yard Office building, and the Guard House/Change House (see Attachment 2, photographs 9 through 12). Fifteen samples of the white pipe wrap with outer black tar jacket were collected for asbestos analysis (Sample IDs: A-13, A-14, A-15, A-25, A-26, A-27, A-29, A-30, A-44, A-62, A-87, A-118, A-160, A-161, and A-165), and eight of the samples contained asbestos. The white pipe wrap was friable and damaged (tears, deterioration, water damage).

- 12" x 12" light brown floor tile (Homogenous Area 9 on Table 1): 12" x 12" light brown floor tile (1/8"-thick) (approximately 225 square feet) is present in the office at the northeast end of the 1st floor of Facility No. 2 (see Attachment 2, photograph 13). Three samples of the floor tiles were collected for asbestos analysis (Sample IDs: A-32, A-33, and A-34), and two of the samples contained asbestos. The light brown floor tiles were not friable and not damaged.

- Tar and gravel roofs (Homogenous Area 21 on Table 1): Tar and gravel roofs with ½" to ¾"-thick black tar and tan and brown rounded gravel are present on the roofs of Building 12, the Yard Offices, Building 18, Building 19, Building 20, the Oil House, Building 29, Building 30, the Lunch Room, Building 34, Reagent Storage Building 36, Building 44, Building 45, and Building 52 (see Attachment 2, photograph 14). Eight samples of the tar and gravel roofs were collected for asbestos analysis (Sample IDs: A-73, A-78, A-90, A-91, A-93, A-128, A-132, and A-150), and four of the samples contained asbestos. The tar and gravel roofs were not friable and not damaged.

- Tan and gray checkered linoleum floor covering (Homogenous Area 25 on Table 1): Tan and gray checkered linoleum floor covering (1/8"-thick) is present in lab and office on the south side of the 1st floor of the Admin Building and Lab (Building 46), the offices on the north end of the 2nd floor of the Admin Building and Lab, and in the laundry room at the east end of the Change House (Building 47). Three samples of the tan and gray checkered linoleum floor covering were collected for asbestos analysis (Sample IDs: A-151, A-152, and A-153), and one sample contained asbestos. The tan and gray checkered linoleum floor covering was not friable and not damaged.

- 9" x 9" light brown floor tile (Homogeneous Area 26 on Table 1): 9" x 9" light brown floor tile (1/8"-thick) is present in the offices on the 2nd floor at the south end of the Power House, and the office on the 2nd floor near the northeast end of the Admin Building and Lab (Building 46) (see Attachment 2, photograph 15). Four samples of the 9" x 9" light brown floor tile were collected for asbestos analysis (Sample IDs: A-98, A-99, A-100, and A-156), and all of the samples contained asbestos. The floor tile was not friable and not damaged.

- Pipe wrap with white fibers and outer orange jacket (Homogenous Area 27 on Table 1): 18"-diameter pipe wrap with 2"-thick white fibers and an outer orange jacket is present on an approximate 14"-diameter steel pipe that runs north-south along the center of the Power House, approximately 12 feet above the 1st floor. The northern end of the 18"-diameter pipe wrap extends to the 2nd floor at the north end of the Power House (see Attachment 2,

photograph 16). Three samples of the 18"-diameter pipe wrap with an outer orange jacket were collected for asbestos analysis (Sample IDs: A-104, A-105, and A-106), and all of the samples contained asbestos. The white pipe wrap was friable and slightly damaged (tears, deterioration).

- Thermal system insulation on boilers (boiler insulation) – white fibers with gray exterior jacket (Homogeneous Area 28 on Table 1): Steel boilers on the 2nd floor at the southeast end of the Power House, and boilers in the Zinc Building (Building 32) contain 1"-thick white fibers with an outer gray jacket (see Attachment 2, photographs 17 and 18). Six samples of the white boiler insulation were collected for asbestos analysis (Sample IDs: A-107, A-108, A-109, A-129, A-130, and A-131), and all of the samples contained asbestos. The white boiler insulation is friable, and the boiler insulation in the Zinc Building is damaged (tears, deterioration).

- Pipe wrap with white fibers and outer metal jacket (Homogenous Area 29 on Table 1): Pipe wrap with 1" to 2"-thick white fibers and an outer 1/16"-thick sheet metal jacket are present on pipes ranging in diameter from 2" to 8" on the 1st floor at the east end of Facility No. 4, and the 1st floor in the southeast portion of the Power House below the boilers (see Attachment 2, photographs 19 and 20). Five samples of the white pipe wrap with outer sheet metal jacket were collected for asbestos analysis (Sample IDs: A-54, A-55, A-110, A-111, and A-112), and three of the samples contained asbestos. The white pipe wrap is friable, and slightly damaged at Facility No. 4 (tears, deterioration).

- 12" x 12" white floor tile with light gray streaks (Homogenous Area 31 on Table 1): 12" x 12" white floor tile with light gray streaks (1/8"-thick) is present in the eastern portion of the Change House/Guard House (Building 47) (see Attachment 2, photograph 21). One sample of the floor tiles was collected for asbestos analysis (Sample ID: A-162), and asbestos was detected in the central layer (black vinyl layer) of the floor tile. This floor tile sample was also analyzed for asbestos using the point count method, and the presence of asbestos (1.75% asbestos) was confirmed. Materials containing more than 1% asbestos are considered asbestos-containing materials (40 CFR Part 763.83). The white floor tiles with light gray streaks were not friable and not damaged.

- 9" x 9" cream-white floor tile (Homogeneous Area 34 on Table 1): 9" x 9" cream-white floor tile (1/8"-thick) (approximately 400 square feet) is present in the office at the northeast end of Warehouse Storage Building 51 (see Attachment 2, photograph 22). Three samples of the 9" x 9" cream-white floor tile were collected for asbestos analysis (Sample IDs: A179, A-180, and A-181), and all of the samples contained asbestos. The floor tile was not friable and not damaged.

- 1/8"-inch-thick red coating on large brick/concrete smokestack southwest of Facility No. 4 (Homogenous Area 35 on Table 1): The large (estimated 250 feet high, 18'-diameter at base) brick and concrete smokestack directly southwest of Facility No. 4 has a 1/8"-thick red exterior coating (see Attachment 2, photograph 23). Three samples of the red exterior coating were collected for asbestos analysis (Sample IDs: A-186, A-187, and A-188), and all of the samples contained asbestos. The red exterior coating was non-friable, except along damaged areas (tears) where the materials was friable.

A summary of the asbestos-containing materials in the buildings at the Encycle facility is provided on Table 2.

Asbestos Management Recommendations

Asbestos was detected in 13 homogeneous areas at the Encycle facility (black galvestos coating, brown linoleum floor covering, white pipe wrap with outer black tar jacket, 12" x 12" light brown floor tile, tar and gravel roofs, tan and gray checkered linoleum floor covering, 9" x 9" light brown floor tile, white pipe wrap with outer orange jacket, white fibrous insulation on boilers, white pipe wrap with outer sheet metal jacket, 12" x 12" white floor tile with light gray streaks, 9" x 9" cream-white floor tile, red coating on large brick/concrete smokestack). Any activities that involve disturbance of these asbestos-containing materials (cutting, drilling, scraping, removal, demolition, etc.) should be conducted by a Texas Department of State Health Services-licensed asbestos abatement contractor. Prior to removal of the asbestos-containing materials, an asbestos abatement project design should be prepared by a Texas Department of State Health Services-licensed asbestos consultant or asbestos project designer. A 10-day notification form also should be submitted to the Texas Department of State Health Services prior to abatement activities. Following completion of asbestos abatement activities, independent third party air monitoring should be conducted by a Texas Department of State Health Services-licensed air monitoring technician prior to issuing final clearance.

Please contact Ken Brandner at (361) 883-1353 if you have any questions.

Sincerely,

ARCADIS G&M Inc

Kenneth J. Brandner

Kenneth J. Brandner, P.E., P.G.
Licensed Asbestos Inspector, License No. 20-5050

TABLES

Table 1. Suspect Asbestos Containing Material (Suspect ACM) Sample Descriptions, November-December 2006, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
1	Facility No. 1	A-1	1	Black galvestos coating (1/8-inch-thick) on exterior metal walls and roof of Facility No. 1. Non-friable.	East exterior metal wall of Facility No. 1. Sample collected 7' AGL, 10' SE of Feed Tank 1.	**55% asbestos.**
		A-2	1	Black galvestos coating (1/16-inch-thick) on 2 large metal cone-shaped tanks directly north of Facility No. 1. Non-friable.	Exterior metal surface of large cone-shaped tanks (2) north of Facility No. 1. Sample taken from western tank, 10' AGL.	**5% asbestos.**
		A-3	1	Black galvestos coating (1/16 to 1/8-inch-thick) is present on some of the steel structural supports (I-beams and cross beams) in Facility No. 1. Non-friable. Galvestos also present on several 1" and 3"-diameter steel pipes on 2nd floor.	2" x 3" steel cross beam (L-shape 90° angle) along west wall of Facility No. 1. 2nd floor of building, west-center wall, 3' above floor.	**6% asbestos.**
		A-4	2	2' x 4' white ceiling tile in offices on 2nd floor of Facility No. 1. 5/8"-thick ceiling tile. Friable.	Offices on 2nd floor of Facility No. 1, 8' AGL.	None detected.
		A-5	2	(same as Sample A-4)	(same as Sample A-4)	None detected.
		A-6	2	(same as Sample A-4)	(same as Sample A-4)	None detected.
		A-7	3	Brown linoleum floor covering. 1/8"-thick. Non-friable.	Offices on 2nd floor of Facility No. 1. Also present in offices in Facility No. 2 and Facility No. 3.	**15% asbestos.**
		A-8	3	(same as Sample A-7)	(same as Sample A-7)	**15% asbestos.**
		A-9	3	(same as Sample A-7)	(same as Sample A-7)	**15% asbestos.**
		A-10	4	Sheet rock/gypsum board walls. 5/8"-thick white chalky material with outer paper jacket. Non-friable.	Interior walls of Facility No. 1. Located in office areas on 2nd floor of Facility No. 1.	None detected.

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Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
		A-11	4	(same as Sample A-10)	(same as Sample A-10)	None detected.
		A-12	4	(same as Sample A-10)	(same as Sample A-10)	None detected.
		A-13	5	Pipe wrap. 2"-thick white pipe wrap with outer black jacket on 6"-diameter pipe. Friable.	2nd floor of Facility No. 1. Located above filters and tanks near center of 2nd floor. Sample collected 7' AGL at Filter 5113.	**5% asbestos.**
		A-14	5	Pipe wrap valve cover. 2"-thick white pipe wrap on valve. Friable.	2nd floor of Facility No. 1. Located on valve cover above filters and tanks near center of 2nd floor. Sample collected 6' AGL at Filter 5111.	None detected.
		A-15	5	Pipe wrap. 2"-thick white pipe wrap with outer black jacket on 1"-diameter pipe. Friable.	2nd floor of Facility No. 1. Located above filters and tanks near center of 2nd floor. Sample collected 1' AGL at Tank 705260.	None detected.
		A-16	6	24"-diameter grayish green vent pipe. 1/8-inch-thick. Non-friable.	2nd floor of Facility No. 1. 24" gray-green pipes located above wooden tanks to top of building.	None detected.
		A-17	6	(same as Sample A-16)	(same as Sample A-16)	None detected.
		A-18	6	(same as Sample A-16)	(same as Sample A-16)	None detected.
2	Facility No. 2	A-19	1	Black galvestos coating (1/8-inch-thick) on exterior metal walls and roof of Facility No. 2. Non-friable. Also located on exterior surface of 2 large metal cone-shaped tanks west of Facility No. 2, and I-beams and concrete pillars at south and east ends of Faciliity No. 2.	East exterior metal wall of Facility No. 2. Sample collected 2' AGL, 5' north of Bldg. 34.	**5% asbestos.**
		A-20	3	Brown linoleum floor covering. 1/8"-thick. Non-friable.	Offices on 2nd floor and 3rd floor at northwest end of Facility No. 2. Also located in office on 2nd floor at east end of West Cell House, and office on 5th floor at NE end of Facility No. 3.	**22% asbestos.**

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Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
		A-21	2	2' x 4' white ceiling tile in offices on 2nd and 3rd floor of Facility No. 2. 5/8"-thick ceiling tile. Friable.	Offices on 1st, 2nd & 3rd floors of Facility No. 2. Sample taken 8' AGL, 3rd floor, NW end of bldg.	None detected.
		A-22	7	Brown flexible baseboard, 4"-high, 1/8"-thick. Non-friable.	Baseboard located along base of interior walls in offices on 2nd and 3rd floors of Facility No. 2.	None detected.
		A-23	7	(same as Sample A-22)	(same as Sample A-22)	None detected.
		A-24	7	(same as Sample A-22)	(same as Sample A-22)	None detected.
		A-25	5	Pipe wrap. 2"-thick white pipe wrap with outer black jacket on 2"-diameter steel pipe. Friable.	2nd and 3rd floor at west end of Facility No. 2. Sample collected on 3rd floor west wall adjacent to Tank 605038.	None detected.
		A-26	5	Pipe wrap. 2"-thick white pipe wrap with outer black jacket on 6"-diameter steel pipe. Friable.	3rd floor at west end of Facility No. 2. Extends vertically upward to ceiling at west end of Facility No. 2. Sample collected 3rd floor west wall, west of Tank 605038	**55% asbestos.**
		A-27	5	Pipe wrap. 1"-thick white pipe wrap with outer black jacket on 1/2"-diameter steel pipe. Friable.	2nd and 3rd floor at west end of Facility No. 2. Sample collected 2nd floor, SW of Thickener 4.	**55% asbestos.**
		A-28	1	Black galvestos coating (1/8-inch-thick) on steel I-beams and 8"-diameter steel pipe at south end of Facility No. 2. Non-friable.	Black galvestos coating on steel I-beams and 8" steel pipes at south end of Facility No. 2. Sample collected at 8" pipe, 2' AGL.	**12% asbestos.**
		A-29	5	Pipe wrap. 1"-thick white pipe wrap with outer black jacket on 1"-diameter steel pipe. Friable.	East end of Facility No. 2, sample collected 6' AGL, 80' SW of Facility No. 2 NE corner.	None detected.
		A-30	5	Pipe wrap. 1"-thick white pipe wrap with outer black jacket on 3/4"-diameter steel pipe. Friable. Significant damage.	East end of Facility No. 2, sample collected 7' AGL, 80' WSW of Facility No. 2 NE corner.	**25% asbestos.**

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Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
		A-31	8	Thermal system insulation. 1"-thick orange fribers with with outer aluminum foil jacket. Friable.	Orange fibers located on 2"-diameter pipe along east wall of Facility No. 2, 12' AGL. Sample collected 12' AGL at SE corner of Facility No. 2.	None detected.
		A-32	9	Floor tile. 12" x 12" lt. brown floor tile. Non-friable.	Floor tile located in office at northeast end of Facility No. 2, 1st floor.	None detected.
		A-33	9	(same as Sample A-32)	(same as Sample A-32)	**2% asbestos.**
		A-34	9	(same as Sample A-32)	(same as Sample A-32)	**2% asbestos.**
		A-35	10	1' x 1' white ceiling tile in office on 1st floor of Facility No. 2, NE corner of bldg. 5/8"-thick ceiling tile. Friable.	Ceiling tile located in office on 1st floor at NE end of Facility No. 2, 8' AGL.	None detected.
		A-36	10	(same as Sample A-35)	(same as Sample A-35)	None detected.
		A-37	10	(same as Sample A-35)	(same as Sample A-35)	None detected.
		A-38	11	Miscellaneous suspect ACM. 1" to 2" thick, brown, non-friable "cement-like" insulation with rough, irregular surface on ceiling of 1st floor at south end of Facility No. 2.	Insulation located on 1st floor ceiling at south end of Facility No. 2, above steel I-beams, 20' AGL.	None detected.
		A-39	11	(same as Sample A-38)	(same as Sample A-38)	None detected.
		A-40	11	(same as Sample A-38)	(same as Sample A-38)	None detected.
3	Facility No. 3	A-41	1	Black galvestos coating (1/8-inch-thick) on exterior metal walls and roof of Facility No. 3. Non-friable.	East exterior metal wall of Facility No. 3. Sample collected 5' AGL, 40' N of SE corner.	**40% asbestos.**
		A-42	12	Thermal system insulation. 4"-thick yellow friable fibers with outer aluminum foil jacket on tanks on third floor of Facility No. 3.	Tanks with yellow insulation located on 3rd floor of Facility No. 3. Sample collected from western tank, 3rd floor, 50' S of north wall.	None detected.

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		A-43	12	Thermal system insulation. 1"-thick yellow friable fibers with outer aluminum foil jacket on pipes adjacent to tanks on third floor of Facility No. 3.	Pipes with yellow pipe wrap located adjacent to tanks on 3rd floor of Facility No. 3. Collected sample 10' east of Sample A-42.	None detected.
		A-44	5	Pipe wrap. 1"-thick white pipe wrap with outer black jacket on 6"-diameter pipe. Friable.	East-center end of Facility No. 3, all five floors. Sample collected 2nd floor at east-center wall.	None detected.
4	Facility No. 4	A-45	2	2' x 4' white ceiling tile in offices at north end of Facility No. 4. 5/8"-thick ceiling tile. Friable.	Offices at north end of Facility No. 4, 8' AGL. Sample collected from 1st floor office.	None detected.
		A-46	14	Floor tile. 12" x 12" lt. brown floor tile. Non-friable.	Floor tile located in offices at north end of Facility No. 4; 1st through 4th floors.	None detected.
		A-47	14	(same as Sample A-46)	(same as Sample A-46)	None detected.
		A-48	14	(same as Sample A-46)	(same as Sample A-46)	None detected.
		A-49	15	Thermal system insulation. 2"-thick yellow-orange friable fibers on large cone-shaped tanks at Facility No. 4. Insulation located below outer metal jacket.	Large (30'-diameter) cone-shaped tank at north end of Facility No. 4, and two 10'-diameter tanks at south end of Facility No. 4.	None detected.
		A-50	15	(same as Sample A-49)	(same as Sample A-49)	None detected.
		A-51	15	(same as Sample A-49)	(same as Sample A-49)	None detected.
		A-52	8	Thermal system insulation. Rigid air duct with 1"-thick orange friable fibers and aluminum foil outer jacket.	Air duct located in office area at north end of Facility No. 4. Sample collected 1st floor, NW end.	None detected.
		A-53	11	Miscellaneous suspect ACM. 1" to 4" thick, brown, non-friable "cement-like" insulation with rough, irregular surface at base of metal conveyor belt at Facility No. 4.	Insulation located on 3rd floor at south-center end of Facility No. 4, below conveyor belt.	None detected.
		A-54	29	Pipe wrap. 2"-thick white pipe wrap with outer metal jacket on 2", 3", 4", and 6"-diameter pipes. Friable.	1st floor of Facility No. 4, east end of building. Sample collected 6' AGL on 2"-diameter pipe.	**2% asbestos.**

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		A-55	29	(same as Sample A-54)	1st floor of Facility No. 4, east end of building. Sample collected 3' AGL on 6"-diameter pipe valve cover.	**15% asbestos.**
5	East Product Storage	A-56	1	Black galvestos coating (1/8-inch-thick) on exterior metal walls and I-beams of East Product Storage Building. Non-friable.	Sample collected from steel I-beams at south end of East Product Storage Building, 4' AGL.	**5% asbestos.**
		A-57	1	(same as Sample A-56)	Sample collected from south metal wall of of East Product Storage Building, 1' AGL.	**45% asbestos.**
6	Product Storage	A-58	17	Thermal system insulation. 2"-thick, tan friable fibers on interior walls and ceiling of office at northwest end of Product Storage building.	Sample collected in office at northwest end of Product Storage Building.	None detected.
		A-59	17	(same as Sample A-58)	(same as Sample A-58)	None detected.
		A-60	17	(same as Sample A-58)	(same as Sample A-58)	None detected.
7	Old Casting Building	A-61	1	Black galvestos coating (1/8-inch-thick) on exterior metal walls and roof of Old Casting Building. Non-friable.	West exterior metal wall of Old Casting Building. Sample collected 1' AGL.	**30% asbestos.**
		A-62	5	Pipe wrap. 1"-thick white pipe wrap with outer black jacket on 1" and 2"-diameter pipes at south end of building, west end of building, and at overhead pipe rack 10' south of building. Friable. Significant damage.	Pipe wrap located at south end of Old Casting Building and on overhead pipe rack 10' south of building. Sample collected 10' south of building on pipe rack, 12' AGL. Note: 3' segment also located at east Yard Office building (Bldg 13).	**60% asbestos.**
		A-63	1	Black galvestos coating (1/8-inch-thick) on 8"-diameter steel pipe on pipe rack 10' south of Old Casting Building. Galvestos located below an exterior white coating. Non-friable.	Sample collected from 8"-diameter pipe on steel pipe rack 10' south of Old Casting Building, 9' AGL. This material is also located on an 8"-diameter pipe at the north-center end of the Sanitary Wastewater Building (Building 9).	**23% asbestos.**

Table 1. Suspect Asbestos Containing Material (Suspect ACM) Sample Descriptions, November-December 2006, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
		A-64	18	Miscellaneous suspect ACM. 1/8" to 1/2"-thick, white granular friable coating/accretions inside metal ovens in Old Casting Building.	Sample collected inside brick oven at south-center end of Old Casting Building.	None detected.
		A-65	18	(same as Sample A-64)	(same as Sample A-64)	None detected.
		A-66	18	(same as Sample A-64)	(same as Sample A-64)	None detected.
		A-67	(see Note 1)	Thermal system insulation. 18"-diameter rigid air duct with 1"-thick pink friable fibers.	Air duct located 12' AGL at center of Old Casting Building.	None detected.
8	Hazardous waste Storage Building	NA	NA	No suspect ACM present.	No suspect ACM present.	
9	Sanitary Wastewater Bldg	A-68	1	Black galvestos coating (1/8-inch-thick) on exterior metal walls of Sanitary Wastewater Building. Non-friable.	Sample collected 2' AGL, west wall of building.	**35% asbestos.**
10	Product Storage Bins (Numbered Bins Building)	A-69	1	Black galvestos coating (1/8-inch-thick) on exterior metal walls and roof of Numbered Bins Building. Non-friable.	Exterior metal walls and roof of Numbered Bins Building, and rail car metal canopy north of building. Sample collected 3' AGL at southeast corner of building.	**35% asbestos.**
11	Wastewater Treatment Bldg	A-70	20	Brown fabric on large metal drum filter on second floor of Wastewater Treatment Building. 1/16"-thick, friable.	Drum filter approx. 10'-diameter, 15'-long on 2nd floor of Wastewater Treatment bldg.	None detected.
		A-71	20	(same as Sample A-70)	(same as Sample A-70)	None detected.
		A-72	20	(same as Sample A-70)	(same as Sample A-70)	None detected.
12	---	A-73	21	Tar & gravel roof. 3/4"-thick black non-friable tar roof.	300 square foot brick building west of reactor/clarifier. Sample taken from roof, 15'AGL.	**20% asbestos.**

Table 1. Suspect Asbestos Containing Material (Suspect ACM) Sample Descriptions, November-December 2006, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
13	Yard offices	A-74	22	Surfacing material. Ceiling texture on ceiling of west yard office building (600 square foot building). Ceiling texture located 14' AGL, 1/2"-thick non-friable gray "cement-like" texture with wire mesh reinforcement.	Ceiling texture located on ceiling of west yard office building, 14' AGL.	None detected.
		A-75	22	(same as Sample A-74)	(same as Sample A-74)	None detected.
		A-76	22	(same as Sample A-74)	(same as Sample A-74)	None detected.
		A-77	8	Thermal system insulation. Rigid air duct with 1"-thick orange friable fibers and aluminum foil outer jacket.	Air duct located 9' AGL in east yard office building.	None detected.
		A-78	21	Tar & gravel roof. 1/2"-thick black non-friable tar roof with underlying 1/2"-thick brown friable fibers.	Roof of Yard Office Buildings (2 adjacent buildings). Sample collected from east buidling.	None detected.
14	Lettered Bins Building	A-79	1	Black galvestos coating (1/8-inch-thick) on exterior metal walls and roof of Facility No. 1. Non-friable.	Galvestos coating on exterior metal walls and roof. Sample collected 4' AGL at north wall.	**20% asbestos.**
15	Plant Engineering	A-80	2	2' x 4' white ceiling tile in offices on 2nd floor of Plant Engineering building. 5/8"-thick ceiling tile. Friable.	Offices on 2nd floor of Plant Engineering building, 8' AGL.	None detected.
		A-81	24	Red-brown linoleum floor covering. 1/8"-thick. Non-friable.	2nd floor, west side of Plant Engineering building.	None detected.
		A-82	24	(Same as Sample A-81)	(Same as Sample A-81)	None detected.
		A-83	24	(Same as Sample A-81)	(Same as Sample A-81)	None detected.
		A-84	12	Thermal system insulation. 12"-diameter air duct with 1"-thick yellow friable fibers and outer aluminum foil jacket.	Air duct located above ceiling on 2nd floor of Plant Engineering building.	None detected.
16	East Cell House	A-85	1	Black galvestos coating (1/16-inch-thick) on steel I-beams in East Cell House. Non-friable. Significant damage.	I-beams in East Cell House. Sample collected from I-beam on 2nd floor, east-center end, 3' AGL.	**8% asbestos.**

Table 1. Suspect Asbestos Containing Material (Suspect ACM) Sample Descriptions, November-December 2006, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
		A-86	1	Black galvestos coating (1/8-inch-thick) on 1st floor concrete pillars and 2nd floor concrete curbs. Non-friable.	Sample collected from 1st floor concrete pillar, 3' AGL, 30' west of building SE corner.	**6% asbestos.**
		A-87	5	Pipe wrap. 1"-thick white pipe wrap with outer black jacket on 1" and 2"-diameter pipes on 2nd floor along north, east, and south perimeter walls. Friable.	Sample collected from 2nd floor of East Cell House, east end, 1"-diameter pipe, 8' AGL.	None detected.
17	---	A-88	1	Black galvestos coating (1/16-inch-thick) on steel walkway outside north and east ends of building. Non-friable.	Galvestos coating on exterior metal walkways north and east of building.	**5% asbestos.**
		A-89	18	Miscellaneous suspect ACM. 1/8" to 1/2"-thick, white granular friable coating/accretions on 2nd floor I-beams. Friable.	Sample collected from I-beam on 2nd floor at east end of building.	None detected.
18	---	A-90	21	Tar & gravel roof. 3/4"-thick black non-friable tar roof.	Roof of Building 18. Sample collected west end.	None detected.
19	Substation	A-91	21	Tar & gravel roof. 3/4"-thick black non-friable tar roof.	Roof of Building 19. Sample collected north end.	**2% asbestos.**
20	---	A-92	1 21	Black galvestos coating (1/16-inch-thick) on 1"-diameter steel pipe at west end of Building 20. Non-friable. (Note: This building also has a tar & gravel roof. See Sample A-93).	20'-long, 1"-diameter steel pipe with galvestos coating, sample collected 3' AGL.	**6% asbestos.**
21	Oil House	A-93	21	Tar & gravel roof. 1/2"-thick black non-friable tar roof.	Roof of Oil House. Sample collected south end.	**6% asbestos.**
22	---	NA	NA	No suspect ACM present.	No suspect ACM present.	
23	---	NA	NA	No suspect ACM present.	No suspect ACM present.	
24	---	A-94	1	Black galvestos coating (1/16-inch-thick) on metal canopy north of building. Non-friable.	Metal canopy north of building. Sample collected 6' AGL at northeast corner of canopy.	**20% asbestos.**

Table 1. Suspect Asbestos Containing Material (Suspect ACM) Sample Descriptions, November-December 2006, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
		A-95	18	Miscellaneous suspect ACM. 1/8" to 1/2"-thick, white granular friable coating/accretions on 1st floor walls and ceiling. Friable. (Note: Damaged thermal insulation (fragments) on 4th level roof bottom not accessible, not sampled).	Sample collected from 1st floor west-center wall, 3' AGL.	None detected.
25	Power House	A-96	10	1' x 1' white ceiling tile in offices on 2nd floor of Power House, south end of bldg. 5/8"-thick ceiling tile. Friable.	Ceiling tile located 9' AGL in offices on 2nd floor, south end of Power House.	None detected.
		A-97	2	2' x 4' white ceiling tile in supply room on 2nd floor of Power House, south end. 5/8"-thick ceiling tile. Friable.	Ceiling tile located 9' AGL in supply room on 2nd floor, south end of Power House.	None detected.
		A-98	26	Floor tile. 9" x 9" lt. brown floor tile. Non-friable.	Floor tile located in offices on 2nd floor, south end of Power House.	**5% asbestos.**
		A-99	26	(same as Sample A-98)	(same as Sample A-98)	**5% asbestos.**
		A-100	26	(same as Sample A-98)	(same as Sample A-98)	**5% asbestos.**
		A-101	24	Red-brown linoleum floor covering. 1/8"-thick. Non-friable.	Red-brown linoleum floor covering located in lab on 2nd floor, and west end of 2nd floor in Power House.	None detected.
		A-102	24	(same as Sample A-101)	(same as Sample A-101)	None detected.
		A-103	24	(same as Sample A-101)	(same as Sample A-101)	None detected.
		A-104	27	Pipe wrap. 18"-diameter white pipe wrap, 1"-thick, with outer orange jacket. Friable.	18"-diameter pipe wrap with orange exterior jacket runs north-south approximately 12' AGL along the center 1st foor of the Power House. Also present on the 2nd floor north end.	**35% asbestos.**
		A-105	27	(same as Sample A-104)	(same as Sample A-104)	**35% asbestos.**

Table 1. Suspect Asbestos Containing Material (Suspect ACM) Sample Descriptions, November-December 2006, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
		A-117	23	Asphalt roof. 1/2"-thick non-friable asphalt on metal roof.	Sample collected 10' AGL from metal roof at east-center end of West Cell House. Also present on roofs at top of West Cell House.	None detected.
		A-118	5	Pipe wrap. 1"-thick white pipe wrap with outer black jacket on 2", 3", 4" and 6"-diameter pipe. Friable. Significant damage.	Pipe wrap located on 2nd floor of West Cell House, extends upward to roof underside. Sample taken from 3"-diameter pipe, 10' AGL.	**55% asbestos.**
		A-119	(see Note 2)	Green translucent piping with fibers, located near cooling towers. Fiberglass appearance.	Piping located near cooling towers west of East Cell House and West Cell House.	None detected.
27	South Reagent Storage Building	A-120	(see Note 3)	Pipe wrap. Cardboard boxes containing unused white fiberous friable pipe wrap. Approx. 16 cardboard boxes of unused pipe wrap/insulation present in building. (Note: This building also has a tar & gravel roof. See Sample A-93).	Cardboard boxes of unused white pipe wrap are located on a wooden shelf at the east end of the South Reagent Storage Building. Sample taken from a 3"-OD pipe wrap segment in box.	None detected.
28	Reagent Storage Building (NOR 43)	A-121	1	Black galvestos coating (1/8-inch-thick) on exterior metal walls, roof, roof drains, and exterior metal cone-shaped tanks at the Reagent Storage Building. Non-friable.	Sample collected from north exterior metal wall of building near NW corner, 3' AGL.	**30% asbestos.**
		A-122	33	Miscellaneous suspect ACM. 1/8"-thick gray exterior friable coating/accretion on 3'-diameter by 8'-high steel tank/boiler at south end of Reagent Storage Building.	Sample collected from 3'-diameter by 8'-high steel tank at south end of Reagent Storage Building, 50' east of building SW corner.	None detected.
		A-123	33	(same as Sample A-122)	(same as Sample A-122)	None detected.
		A-124	33	(same as Sample A-122)	(same as Sample A-122)	None detected.
		A-125	33	Same as Sample A-122, located on exterior of electrical conduits at south end of Reagent Storage Building.	Sample collected from exterior electrical conduit pipe (1"-diameter pipe), 10' AGL, S. end of bldg.	None detected.
		A-126	3	Brown linoleum floor covering. 1/8"-thick. Non-friable.	Brown linoleum floor covering located in office at south-center end of Reagent Storage Building.	**20% asbestos.**

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Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
29	---	A-127	(see Note 4) 21	White paint. 1/32"-thick paint coating on walls of Builidng 29. Non-friable. (Note: This building also has a tar & gravel roof. See Sample A-91, A-93 and A-128).	White paint on building 29 interior walls. Paint sample collected to confirm absence of asbestos.	None detected.
30	---	A-128	21	Tar & gravel roof. 1/2"-thick black non-friable tar roof with underlying 1/2"-thick brown friable fibers.	Roof of Building 30. Sample collected west end.	**10% asbestos.**
31	Spill Sorbent Storage Building	NA	NA	No suspect ACM present.	No suspect ACM present.	
32	Zinc Building	A-129	28	Thermal system insulation on boiler (Boiler insulation). 1"-thick white friable fibers with gray exterior jacket. Damaged. (Note: This building also galvestos on exterior metal walls and roof. See Sample A-1).	Boiler insulation located on exterior of three large boilers and attached ducts at the east end of the Zinc Building.	**15% asbestos.**
		A-130	28	(Same as Sample A-129)	(Same as Sample A-129)	**30% asbestos.**
		A-131	28	(Same as Sample A-129)	(Same as Sample A-129)	**35% asbestos.**
33	Lunch Room	A-132	21	Tar & gravel roof. 1/2"-thick black non-friable tar roof.	Roof of Lunch Room.	None detected.
34	MCC L&M		21	(Note: This building has a tar & gravel roof. See Sample A-91, A-93 and A-128).	Roof of MCC L&M Building.	
35	Scale House	A-133	23	Asphalt roof.	9' x 12' wooden building with asphalt roof.	None detected.
36	Reagent Storage	Brick	21	(Note: This building has a tar & gravel roof. See Sample A-91, A-93 and A-128).	Roof of Reagent Storage Bldg NW of Facility No. 2.	
37	MCC 29D	A-134	23	Asphalt roof. Asphalt only - no tar & gravel.	Brick building roof east of Facility No. 3.	None detected.

Table 1. Suspect Asbestos Containing Material (Suspect ACM) Sample Descriptions, November-December 2006, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
38	---	A-135	2	2' x 4' white ceiling tile in Building 38. 5/8"-thick ceiling tile. Friable.	Office at northwest end of building, 8' AGL.	None detected.
		A-136	8	Thermal system insulation. Rigid air duct with 1"-thick orange-yellow friable fibers and aluminum foil outer jacket.	Air duct located in office area at north end of building. Sample collected 10' AGL.	None detected.
		A-137	4	Sheet rock/gypsum board walls. 5/8"-thick white chalky material with outer paper jacket. Non-friable.	Sheet rock located on interior walls, collected sample from west-center room, 3' AGL.	None detected.
		A-138	13	Tar & gravel roof with red "lava/pumice" gravel. 1/2"-thick black non-friable tar roof.	Roof of building 38. Sample collected at south-center end of roof.	None detected.
39	Substation	A-139	13	Tar & gravel roof with "white" gravel. 1/2"-thick black non-friable tar roof.	Roof of building 39. Sample collected at north-center end of roof.	None detected.
40	Substation	A-140	13	Tar & gravel roof with "white" gravel. 1/2"-thick black non-friable tar roof.	Roof of building 40. Sample collected at east end of roof.	None detected.
41	Lab	A-141	2	2' x 4' white ceiling tile in Building 41. 5/8"-thick ceiling tile. Friable.	Ceiling tile located 9' AGL throughout building interior, sample collected at south-center end.	None detected.
		A-142	16	Floor tile. 12" x 12" white floor tile. Non-friable.	Floor tile located on Building 41 (Lab) floor.	None detected.
		A-143	16	(same as Sample A-142)	(same as Sample A-142)	None detected.
		A-144	16	(same as Sample A-142)	(same as Sample A-142)	None detected.
		A-145	19	Blue flexible baseboard, 4"-high, 1/8"-thick. Non-friable.	Baseboard located along base of interior walls	None detected.
		A-146	19	(same as Sample A-145)	(same as Sample A-145)	None detected.
		A-147	19	(same as Sample A-145)	(same as Sample A-145)	None detected.

Table 1. Suspect Asbestos Containing Material (Suspect ACM) Sample Descriptions, November-December 2006, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
		A-148	4	Sheet rock/gypsum board walls. 5/8"-thick white chalky material with outer paper jacket. Non-friable.	Interior walls of lab. Sample collected at sheet rock joint, 4' AGL, 10' north of bldg SE corner.	None detected.
		A-149	23	Asphalt shingle roof. 1/4" thick non-friable black shingles.	Sampled at stairway at building NE corner.	None detected.
42	---	NA	NA	No suspect ACM present.	No suspect ACM present.	
43	---	NA	NA	No suspect ACM present.	No suspect ACM present.	
44	---		21	(Note: This building has a tar & gravel roof. See Sample A-91, A-93 and A-128).	Building located south of Facility No. 1.	
45	---	A-150	21	Tar & gravel roof. 1/2"-thick black non-friable tar roof.	Sample collected at north end of building roof.	None detected.
46	Admin Building and Lab	A-151	25	Tan & gray checkered linoleum floor covering. 1/8"-thick. Non-friable. Small (1/2") square checkered pattern.	Linoleum located on floor at south side of first floor, and north side of 2nd floor. Also present in laundry room at east end of Change House.	None detected.
		A-152	25	(same as Sample A-151)	(same as Sample A-151)	None detected.
		A-153	25	(same as Sample A-151)	(same as Sample A-151)	**5% asbestos in underlying mastic.**
		A-154	16	Floor tile. 12" x 12" white floor tile. Non-friable.	Floor tile located in hallways on 1st and 2nd floor.	None detected.
		A-155	3	Brown linoleum floor covering. 1/8"-thick. Non-friable.	Brown linoleum located on 2nd floor hallway and and 2nd floor offices north of hallway.	**20% asbestos.**
		A-156	26	Floor tile. 9" x 9" lt. brown floor tile. Non-friable.	9" x 9" floor tile located in 2nd floor office, north of hallway, 30' west of building NE corner.	**5% asbestos.**
		A-157	7	Gray/brown flexible baseboard, 4"-high, 1/8"-thick. Non-friable.	Baseboard located along base of interior walls	None detected.

Table 1. Suspect Asbestos Containing Material (Suspect ACM) Sample Descriptions, November-December 2006, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
		A-158	2	2' x 4' white ceiling tile in offices on 1st and 2nd floor of Admin bldg and lab. 5/8"-thick ceiling tile. Friable.	Offices on 1st and 2nd floor, sample collected in lab 30' west of building SE corner, 8' AGL.	None detected.
		A-159	4	Sheet rock/gypsum board walls. 5/8"-thick white chalky material with outer paper jacket. Non-friable.	Interior walls of building. Sample collected in hallway 15' west of east-center door, 1st floor.	None detected.
		A-160	5	Pipe wrap. 1"-thick white pipe wrap with outer black jacket on 2"-diameter pipe. Friable. Significant damage.	Pipe wrap located on 2", 4", and 6" pipes in building basement. Sample collected 8' AGL.	**55% asbestos.**
		A-161	5	(same as Sample A-160)	(same as Sample A-160)	**65% asbestos.**
47	Change House/ Guard House	A-162	31	Floor tile. 12" x 12" white floor tile with lt. gray streaks in Change House/Guard House. 1/8"-thick. Non-friable.	White floor tile located in eastern portion of Change House/Guard House. Sample collected at doorway at east-center end of building.	**3% asbestos (PLM). 1.75% asbestos (Point Count Method)**
		A-163	7	Gray/brown flexible baseboard, 4"-high, 1/8"-thick. Non-friable.	Baseboard located along base of interior walls in offices at east end of building.	None detected.
		A-164	2	2' x 4' white ceiling tile in Change House. 5/8"-thick, friable.	Sample collected 30' west of east end, 8' AGL.	None detected.
		A-165	5	Pipe wrap. 1"-thick white pipe wrap with outer black jacket on 2"-diameter pipe. Friable.	Pipe wrap located on 2" pipe along outer north wall of Change House, 50' west of NE corner.	None detected.
		A-166	15	Thermal system insulation. 2"-thick yellow-orange friable fibers on tank/boiler at north-center end of Change House. Insulation located below outer metal jacket.	5'-diameter x 15'-high tank at north-center end of Change House. Sample collected 4' AGL.	None detected.
48	Visitor Center	A-167	14	Floor tile. 12" x 12" gray-brown floor tile. Non-friable.	Floor of Visitor Center, sampled at south-center.	None detected.
		A-168	7	Gray/brown flexible baseboard, 4"-high, 1/8"-thick. Non-friable.	Baseboard located along base of interior walls, sample collected at east-center wall.	None detected.
		A-169	2	2' x 4' white ceiling tile in Visitor Center. 5/8"-thick, friable.	Sample collected at center of building, 9' AGL.	None detected.

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Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
		A-170	13	Tar & gravel roof. Non-friable.	Roof of Visitor Center. Sample collected at S end.	None detected.
49	Admin Offices	A-171	14	Floor tile. 12" x 12" gray-brown floor tile. Non-friable.	Floor of Admin offices, sampled at east end.	None detected.
		A-172	7	Gray/brown flexible baseboard, 4"-high, 1/8"-thick. Non-friable.	Baseboard located along base of interior walls, sample collected at east-center wall.	None detected.
		A-173	2	2' x 4' white ceiling tile in Admin Offices. 5/8"-thick, friable.	Sample collected at east end of building, 9' AGL.	None detected.
		A-174	8	Thermal system insulation. Rigid air duct with 1"-thick orange friable fibers and aluminum foil outer jacket.	Air duct located in office area in southern portion of Admin Offices. Sample collected 10' AGL.	None detected.
		A-175	32	4' x4' brown ceiling tiles/ceiling panels on ceiling at north end of Admin Offices in storage room, and on ceiling of Warehouse Storage Building (Building 51). 5/8"-thick brown fiberous insulation. Friable.	Ceiling at north end of Admin Offices, and ceiling of Warehouse Storage Building (Building 51), located 15-25' AGL. Samples A-175 through A-176 collected from ceiling of Admin Offices.	None detected.
		A-176	32	(same as Sample A-175)	(same as Sample A-175)	None detected.
		A-177	32	(same as Sample A-175)	(same as Sample A-175)	None detected.
50	Fire Water Bldg.	A-178	13	Tar & gravel roof. Non-friable.	Roof of Fire Water Building. Sampled at N end.	None detected.
51	Warehouse Storage Bldg.	A-179	34	Floor tile. 9" x 9" cream-white floor tile. Non-friable.	Floor of 16' x 25' office at northeast end of Warehouse Storage Building.	**6% asbestos.**
		A-180	34	(same as Sample A-179)	(same as Sample A-179)	**6% asbestos.**
		A-181	34	(same as Sample A-179)	(same as Sample A-179)	**6% asbestos.**
		A-182	10	1' x 1' white ceiling tile on ceiling and interior walls at east-center end of Warehouse Storage Bldg. 5/8", Friable.	Ceiling tile located on walls and ceiling of office at east-center end of Warehouse Storage Bldg.	None detected.

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Figure 1 Building Number	Encyle Building Name	Suspect ACM Sample ID	Homogenous Area Number	Suspect ACM Description[a]	Suspect ACM Sample Location	Asbestos Sample Results
		A-183	7	Gray/brown flexible baseboard, 4"-high, 1/8"-thick. Non-friable.	Baseboard located along base of interior walls at east end of building, sample collected NE corner.	None detected.
		A-184	7	(same as Sample A-183)	(same as Sample A-183)	None detected.
		A-185	7	(same as Sample A-183)	(same as Sample A-183)	None detected.
52	---		21	(Note: This building also has a tar & gravel roof. See Sample A-91 and A-93).	Small brick building west of Facility No. 1.	
53	Smokestack	A-186	35	Surfacing material on large concrete/brick smokestack exterior. 1/8"-thick red coating, tar-like with fibers. Non-friable in undamaged areas, friable in damaged areas.	Tall smokestack SW of Facility No. 4. Smokestack has red lights on top. Sample collected at SE end, 3' AGL.	**11% asbestos.**
		A-187	35	(same as Sample A-186)	Sample collected at north end, 2' AGL.	**11% asbestos.**
		A-188	35	(same as Sample A-186)	Sample collected at west end, 3' AGL.	**11% asbestos.**

Suspect ACM — Suspect asbestos-containing material.
AGL — Above ground level.
OD — Outside diameter.

Notes:

1. This air duct appears to be fiberglass (not suspect ACM), but one sample was collected (Sample ID: A-67) to verify the absence of asbestos. Asbestos was not detected in the sample, and the laboratory report showed the pink fibers are fiberglass.
2. Green translucent piping is located outside the west end of the East Cell House and West Cell House near cooling towers. This piping appears to be fiberglass (not suspect ACM), but one sample was collected (Sample ID: A-119) to verify the absence of asbestos. Asbestos was not detected in the sample, and the laboratory report showed the fibers in the pipe are fiberglass.
3. A box of ununsed white pipe wrap is also present on the 1st floor at the north end of the Power House, and this box is labeled "Johns Manville Thermal Pipe Insultation - Asbestos Free." A sample of the unused white pipe wrap (Sample ID: A-120) in carboard boxes in the South Reagent Storage Building (Building 27) was collected, and asbestos was not detected in the sample.
4. A thin layer of white paint is present on the Building 29 interior walls. The paint did not appear to contain fibers, however a sample was collected (Sample ID: A-127) to confirm the absence of asbestos. Asbestos was not detected in the sample, and the laboratory report showed the paint is non-fibrous.
5. Yellow, pink, and/or orange thermal system insulation is present above ceiling tiles in several buildings, including Facility No. 1, Facility No. 2, and Facility No. 3, was labeled "fiberglass" and is therefore not suspect ACM and was not sampled.

Table 2. Asbestos Containing Material Summary, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Building Material of Construction	Approximate Building Size (ft^2)	Asbestos-Containing Materials	Remarks
1	Facility No. 1	Prefabricated metal	50,000	Black galvestos coating on large metal cone-shaped tanks directly north of Facility No. 1. Black galvestos coating on exterior metal walls and roof. Black galvestos coating on some steel I-beams, steel angle beams, and steel pipes inside Facility No. 1. Brown linoleum floor covering in 2nd level offices. White fibrous pipe wrap with outer black tar jacket on 1/2" to 8"-diameter pipes in portions of the 1st and 2nd levels of Facility No. 1.	2 levels inside building. Some metal floor plates on 2nd level unstable/deteriorated.
2	Facility No. 2	Prefabricated metal	54,000	Black galvestos coating on large metal cone-shaped tanks directly west of Facility No. 2. Black galvestos coating on exterior metal walls and roof. Black galvestos coating on some steel I-beams, concrete pillars, and pipes at the south and east interior portions of Facility No. 2. Brown linoleum floor covering in 2nd and 3rd level offices at northwest end of Facility No. 2. White fibrous pipe wrap with outer black tar jacket on 1/2" to 8"-diameter pipes in portions of the 1st, 2nd, and 3rd levels of Facility No. 2. 12" x 12" light brown floor tile in office on 1st level at northeast end of Facility No. 2.	3 levels inside building. Eastern half of building interior unstable/deteriorated.
3	Facility No. 3	Prefabricated metal	15,000	Black galvestos coating on exterior metal walls of Facility No. 3. Brown linoleum floor covering in 5th level office at northeast end of Facility No. 3. White fibrous pipe wrap with outer black tar jacket on 1" to 6"-diameter pipes at the east end of Facility No. 3, levels 1 through 5.	5 levels inside building.
4	Facility No. 4	Prefabricated metal	6,500	White fibrous pipe wrap with outer sheet metal jacket on 2" to 8"-diameter pipes and valve covers on the 1st floor at the east end of Facility No. 4.	5 levels inside building.
5	East Product Storage	Prefabricated metal	2,400	Black galvestos coating on exterior metal walls and roof of East Product Storage building. Black galvestos coating on interior I-beams.	Easternmost site building.
6	Product Storage	Prefabricated metal	11,200	**No ACM present.**	**No ACM present.**

Table 2. Asbestos Containing Material Summary, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Building Material of Construction	Approximate Building Size (ft^2)	Asbestos-Containing Materials	Remarks
7	Old Casting Building	Prefabricated metal	20,000	Black galvestos coating on exterior metal walls and roof of Old Casting Building. Black galvestos coating on 8"-diameter steel pipe 10' AGL on elevated steel pipe rack south of Old Casting Building. White fibrous pipe wrap with outer black tar jacket on 1" to 2"-diameter pipes at the south and west ends of the Old Casting Building, and pipe rack south of building.	North of East Cell House.
8	Hazardous waste Storage Building	Prefabricated metal	3,200	**No ACM present.**	**No ACM present.**
9	Sanitary Wastewater Bldg	Prefabricated metal	1,200	Black galvestos coating on exterior metal walls of Sanitary Wastewater building. Black galvestos coating on 8"-diameter steel pipe at north-center end of the Sanitary Wastewater Building.	NE end of site plant area.
10	Product Storage Bins (Numbered Bins Building)	Concrete and Prefabricated metal	30,000	Black galvestos coating on exterior metal walls and roof of Numbered Bins Building.	Building contains large concrete bins.
11	Wastewater Treatment Bldg	Brick and Prefabricated metal	800	**No ACM present.**	**No ACM present.**
12	---	Brick	300	Tar & gravel roof.	West of reactor/clarifier.
13	Yard offices	Brick	1,800	White fibrous pipe wrap with outer black tar jacket on 3-foot-long segment of steel pipe, 10' east of northwest corner of eastern Yard Office building. Tar & gravel roof.	2 adjacent buildings east of Lettered Bins Building.
14	Lettered Bins Building	Concrete and Prefabricated metal	50,000	Black galvestos coating on exterior metal walls and roof of Lettered Bins Building.	Building contains large concrete bins.
15	Plant Engineering	Brick	3,750	**No ACM present.**	**No ACM present.**

Table 2. Asbestos Containing Material Summary, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Building Material of Construction	Approximate Building Size (ft^2)	Asbestos-Containing Materials	Remarks
16	East Cell House	Concrete and Prefabricated metal	40,000	Black galvestos coating on exterior metal walls and roof of East Cell House. Black galvestos coating on 1st level concrete pillars, 2nd level steel I-beams, and 2nd level concrete curbing. White fibrous pipe wrap with outer black tar jacket on 1" to 2"-diameter pipes on the 2nd level of the East Cell House.	2 levels inside building.
17	—	Brick	1,000	Black galvestos coating on exterior metal walkway on north and east side of Building 17. White fibrous pipe wrap with outer black tar jacket on 4-foot-long segment of pipe outside the north end of Building 17.	East of Facility No. 1. 3 levels inside building.
18	—	Brick	2,000	Tar & gravel roof.	East of Facility No. 1.
19	Substation	Brick	240	Tar & gravel roof.	West of Numbered Bins Bldg. Door labeled "SS 21".
20	—	Brick	120	Black galvestos coating on 1"-diameter pipe west of Building 20. Tar & gravel roof.	30' east of Oil House.
21	Oil House	Brick	900	Tar & gravel roof.	North of Power House.
22	—	Prefabricated metal	225	**No ACM present.**	**No ACM present.** West of Oil House.
23	—	Prefabricated metal	825	**No ACM present.**	**No ACM present.** West of Oil House.
24	—	Brick	525	Black galvestos coating on exterior metal canopy north of Building 24. White fibrous pipe wrap with outer black tar jacket on 8-foot-long segment of pipe outside the north end of Building 24 near wooden tank.	Building 4 levels high.

Table 2. Asbestos Containing Material Summary, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Building Material of Construction	Approximate Building Size (ft^2)	Asbestos-Containing Materials	Remarks
25	Power House	Brick	35,000	Black galvestos coating on I-beams at east end of Power House. 9" x 9" light brown floor tile in offices on 2nd floor, south end of Power House. 18"-diameter white pipe wrap with outer orange jacket on 1st level, center of Power House, running north-south approximately 12' AGL. Thermal system insulation on boilers - white fibers with outer gray jacket. Boilers located on 2nd floor at southeast end of Power House. White fibrous pipe wrap with outer sheet metal jacket on 2" to 8"-diameter pipes and pipe valve covers below boilers on 1st level, southeast end of Power House.	
26	West Cell House	Concrete and Prefabricated metal	40,000	Black galvestos coating on exterior metal walls and roof of West Cell House. Black galvestos coating on 1st and 2nd level concrete pillars and steel I-beams. Black galvestos coating on 1st level concrete ceiling, and some 1st level pipes at the east end of the building. Brown linoleum floor covering in 2nd level office at east end of West Cell House. White fibrous pipe wrap with outer black tar jacket on 1" to 6"-diameter pipes on the 2nd level of the West Cell House.	2 levels inside building. Building interior unstable/ deteriorated.
27	South Reagent Storage Building	Brick	1,800	Tar & gravel roof.	Building located northwest of West Cell House.
28	Reagent Storage Building (NOR 43)	Prefabricated metal	12,000	Black galvestos coating on exterior metal walls and roof. Black galvestos coating on interior walls west end, exterior roof drains, and exterior metal cone-shaped tanks at north and south ends of building. White fibrous pipe wrap with outer black tar jacket on 1" and 2"-diameter pipes on the 2nd level at the east end of the building. Brown linoleum floor covering in office at the south-center end of the Reagent Storage Building.	Referred to as "NOR 43 Building". 2 levels inside building.
29	---	Brick	300	Tar & gravel roof.	SE of Feed Tank #2.
30	---	Brick	200	Tar & gravel roof.	SE of Facility No. 2.
31	Spill Sorbent Storage Building	Brick	60	**No ACM present.**	**No ACM present.** SE of Facility No. 2.

Table 2. Asbestos Containing Material Summary, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Building Material of Construction	Approximate Building Size (ft^2)	Asbestos-Containing Materials	Remarks
32	Zinc Building	Prefabricated metal	3,200	Black galvestos coating on exterior metal walls and roof. Thermal system insulation on boilers and connecting ducts - white fibers with outer gray jacket. Boilers and ducts located at east end of Zinc Building (Building 32).	West of Feed Tank #2.
33	Lunch Room	Brick	600	Tar & gravel roof.	NE of Facility No. 2.
34	MCC L&M	Brick	180	Tar & gravel roof.	East of Facility No. 2.
35	Scale House	Wooden	108	**No ACM present.**	**No ACM present.** 9' x 12' wooden building.
36	Reagent Storage	Brick	2,100	Tar & gravel roof.	NW of Facility No. 2.
37	MCC 29D	Brick	180	**No ACM present.**	**No ACM present.** East of Facility No. 3.
38	---	Brick	1,000	**No ACM present.**	**No ACM present.** SE of Facility No. 3. Red Brick Building.
39	Substation	Brick	600	**No ACM present.**	**No ACM present.** SE of Facility No. 3. White Brick Building.
40	Substation	Brick	600	**No ACM present.**	**No ACM present.** White Brick Building.
41	Lab	Brick	1,350	**No ACM present.**	**No ACM present.** White Brick Building. South of Facility No. 4.
42	---	Prefabricated metal	800	**No ACM present.**	**No ACM present.** Blue Metal Building.

Table 2. Asbestos Containing Material Summary, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Building Material of Construction	Approximate Building Size (ft^2)	Asbestos-Containing Materials	Remarks
43	---	Brick	64	**No ACM present.**	**No ACM present.** Building labeled "Spill Response Equipment".
44	---	Brick	180	Tar & gravel roof.	South of Facility No. 1.
45	---	Brick	150	Tar & gravel roof.	East of water tower.
46	Admin Building and Lab	Brick	3,500	Brown linoleum floor covering on the 2nd floor hallway and offices north of hallway. White fibrous pipe wrap with outer black tar jacket on 1" to 6"-diameter pipes in the basement of the Admin Building and lab. Tan and gray checkered linoleum floor covering on 1st floor, south side of building, and 2nd floor, north side of building. 9" x 9" light brown floor tile in room on 2nd floor, 30' west of building NE corner.	2 levels plus basement. Pipe insulation in basement labeled "asbestos".
47	Change House/ Guard House	Brick	10,000	White fibrous pipe wrap with outer black tar jacket on 2"-diameter steel pipe along outer wall at north-center end of Change House, and room at north-center end of Change House. Tan and gray checkered linoleum floor covering on 1st floor laudry room, east end of Change House. 12" x 12" white floor tile with light gray streaks located in the eastern portion of the Change House.	Building west of main entrance gate on Up River Rd.
48	Visitor Center	Brick	1,500	**No ACM present.**	**No ACM present.** North of Change House.
49	Admin Offices	Brick	6,300	**No ACM present.**	**No ACM present.** North of Change House. West of Visitor Center.
50	Fire Water Bldg.	Brick	150	**No ACM present.**	**No ACM present.** North of Change House. Southwest of Admin Offices.

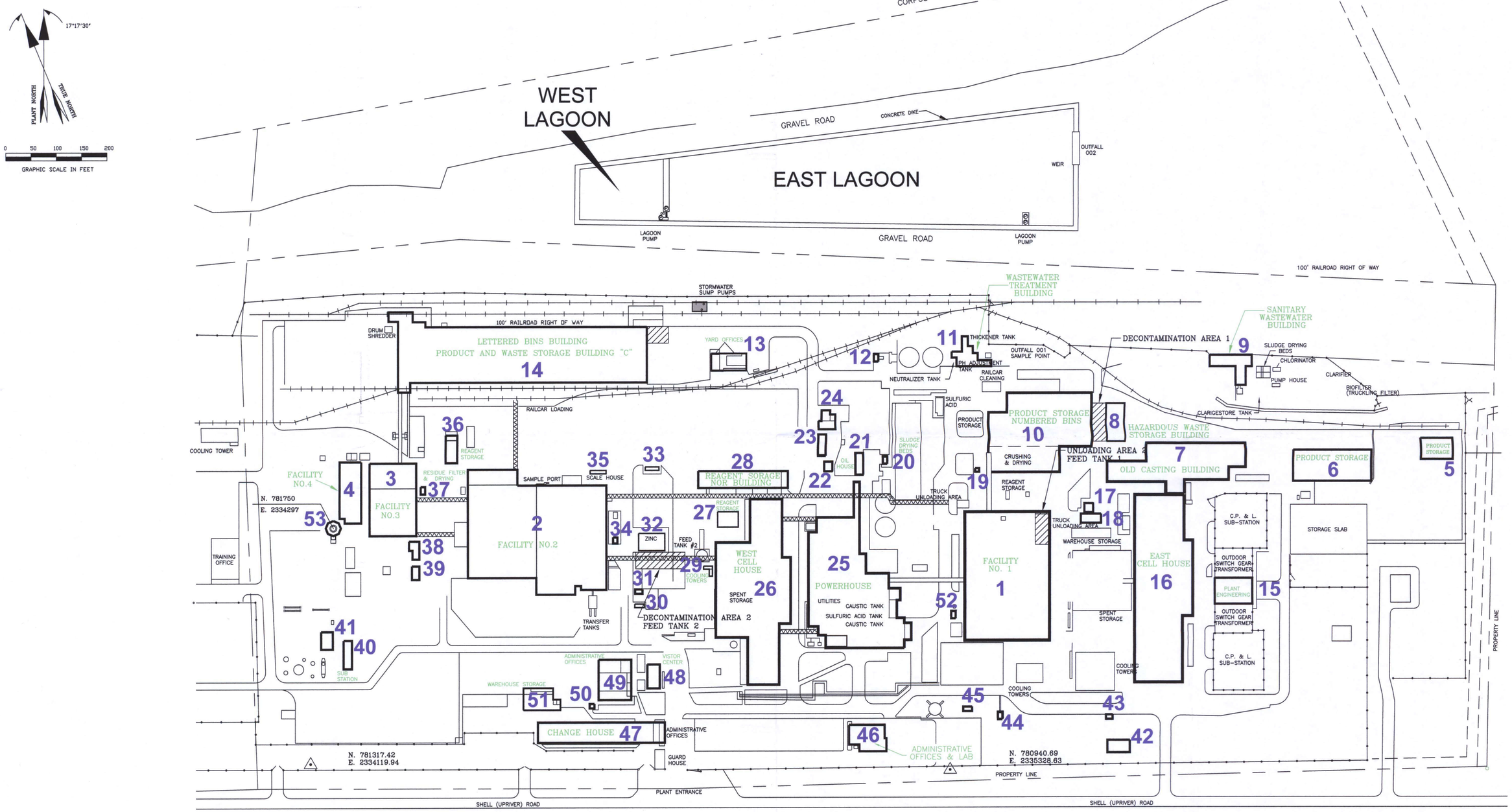
Table 2. Asbestos Containing Material Summary, Encyle Facility, 5500 Up River Road, Corpus Christi, Texas

Figure 1 Building Number	Encyle Building Name	Building Material of Construction	Approximate Building Size (ft^2)	Asbestos-Containing Materials	Remarks
51	Warehouse Storage Bldg.	Brick	3,200	9" x 9" cream-white floor tile in offices at northeast end of Warehouse Storage Building.	Northwest of Change House.
52	---	Brick	325	Tar & gravel roof.	West of Facility No. 1.
53	Smokestack	Brick	NA	1/8"-thick red coating on exterior of large concrete/brick smokestack located directly southwest of Facility No. 4.	Tall brick smokestack. Located SW of Facility No. 4.

AGL Above ground level.

Note: The roofing materials of several large buildings (Plant Engineering Building, Power House, Admin Building and Lab) were not visible and not accessible.

FIGURES



LEGEND

1 BUILDING ID NUMBER

ARCADIS

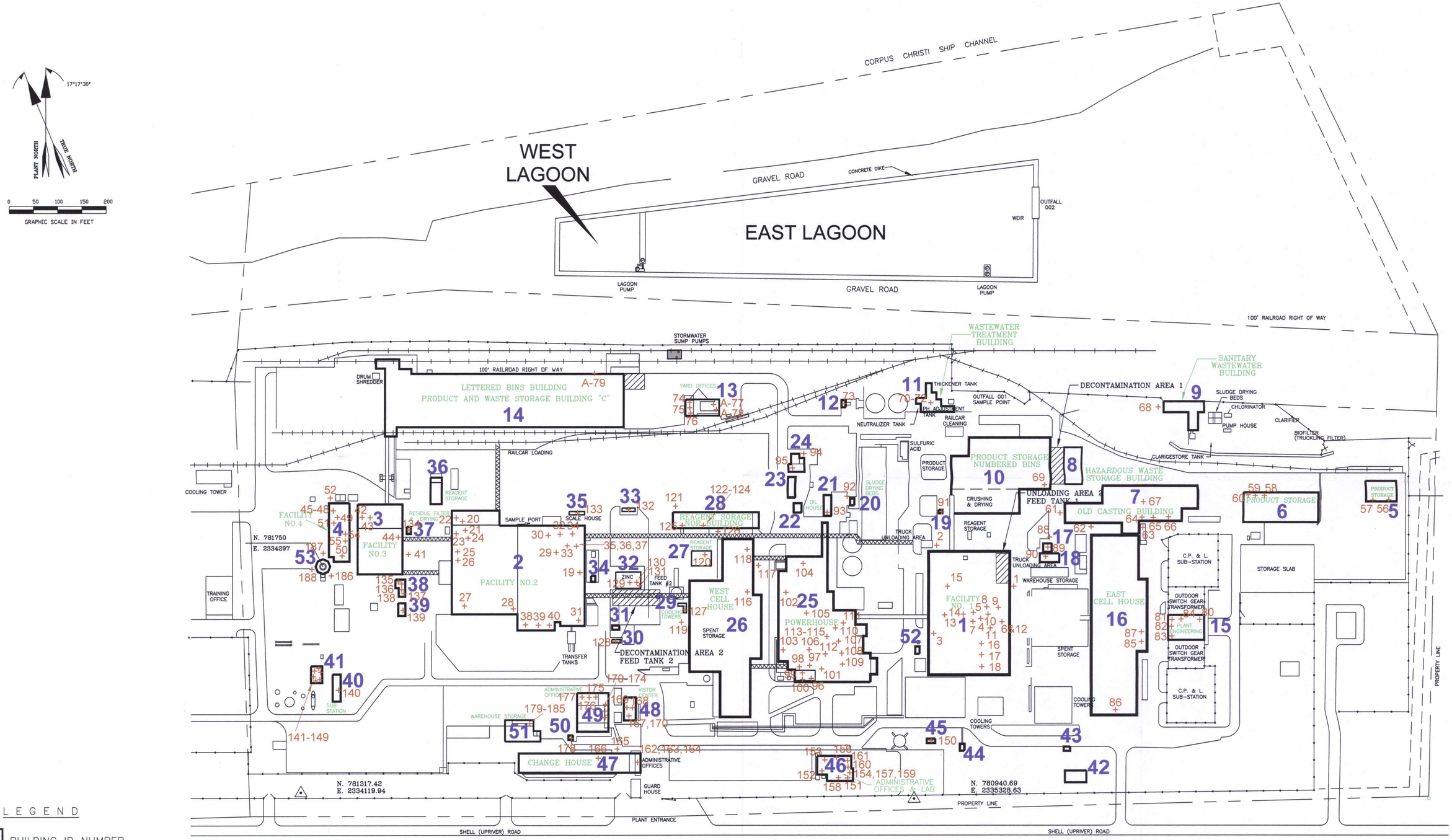
SCALE VERIFICATION	REV. NO.	DATE	DESCRIPTION	BY	APPR.
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE					

PROJECT NO.: CC001065.1	FILE NO:
DRAWING: BLDG LOC	PLOT SIZE: 1=100
DRAFTED BY: DPL	DATE: 11/9/06
CHECKED BY: K. BRANDNER	DATE:
APPROVED BY: K. BRANDNER	DATE:

BUILDING LOCATION MAP

CORPUS CHRISTI, TEXAS
ENCYCLE/TEXAS, INC.

FIGURE 1



LEGEND

1 BUILDING ID NUMBER

+ SUSPECT ASBESTOS-CONTAINING MATERIAL SAMPLE LOCATION

3 SUSPECT ASBESTOS-CONTAINING MATERIAL SAMPLE ID

ARCADIS

SCALE VERIFICATION
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:
USE TO VERIFY FIGURE REPRODUCTION SCALE

REV. NO.	DATE	DESCRIPTION	BY	APPR.

PROJECT NO.: CC001065.1	FILE NO:
DRAWING: BLDG LOC	PLOT SIZE: 1=100
DRAFTED BY: DPL	DATE: 11/9/06
CHECKED BY: K. BRANDNER	DATE:
APPROVED BY: K. BRANDNER	DATE:

ASBESTOS SAMPLE LOCATION MAP
NOVEMBER - DECEMBER 2006

CORPUS CHRISTI, TEXAS
ENCYCLE/TEXAS, INC.

FIGURE
2

ATTACHMENTS

ATTACHMENT 1

Asbestos Laboratory Reports

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: ARCADIS Geraghty & Miller
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

DATE OF RECEIPT: 29 Nov 2006
DATE OF ANALYSIS: 29 Nov 2006
DATE OF REPORT: 30 Nov 2006

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-11-3218
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
01	A-1/ Black Tar-Like; Brown/Tan Fib.	55% Chrysotile 55% Total Asbestos	10% Cellulose 35% Non-Fibrous
02	A-2/ Black Tar-Like	5% Chrysotile 5% Total Asbestos	95% Non-Fibrous
03	A-3/ Black Tar-Like	6% Chrysotile 6% Total Asbestos	94% Non-Fibrous
04	A-4/ Tan Fib.	NAD	40% Cellulose 40% Fibrous Glass 20% Non-Fibrous
05	A-5/ Tan Fib.	NAD	40% Cellulose 40% Fibrous Glass 20% Non-Fibrous
06	A-6/ Tan Fib.	NAD	40% Cellulose 40% Fibrous Glass 20% Non-Fibrous
07A	A-7(a)-Linoleum/ Brown Linoleum; Tan Fib.	15% Chrysotile ★ 15% Total Asbestos ★Present in fibrous backing.	85% Non-Fibrous
07B	A-7(b)-Mastic/ Yellow Adhes.	Trace, <1% Chrysotile ★ <1% Total Asbestos ★Possible contamination from fibrous backing.	100% Non-Fibrous
08	A-8/ Brown Linoleum; Tan Fib.	15% Chrysotile 15% Total Asbestos	85% Non-Fibrous
09	A-9/ Brown Linoleum; Tan Fib.	15% Chrysotile 15% Total Asbestos	85% Non-Fibrous
10	A-10/ White Chalky	NAD	4% Cellulose 96% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-11-3218
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
11	A-11/ White Chalky; Brown Fib.	NAD	25% Cellulose 75% Non-Fibrous
12	A-12/ White Chalky; Brown Fib.	NAD	20% Cellulose 80% Non-Fibrous
13	A-13/ White Powder; Black Tar-Like; Fib.	5% Chrysotile 5% Total Asbestos	5% Cellulose 90% Non-Fibrous
14	A-14/ White Chalky	NAD	4% Cellulose 96% Non-Fibrous
15	A-15/ Black Tar-Like; Fib.; White Powder	NAD	15% Cellulose 85% Non-Fibrous
16	A-16/ Gray Brittle; Fib.	NAD	25% Fibrous Glass 75% Non-Fibrous
17	A-17/ Gray Brittle; Fib.	NAD	25% Fibrous Glass 75% Non-Fibrous
18	A-18/ Gray Brittle; Fib.	NAD	25% Fibrous Glass 75% Non-Fibrous
19	A-19/ Black Tar-Like	5% Chrysotile 5% Total Asbestos	95% Non-Fibrous
20A	A-20(a)-Flooring/ Gray/Brown Vinyl-Like; Pale Gray Fib.	22% Chrysotile ★ 22% Total Asbestos ★Present in fibrous backing.	8% Cellulose 70% Non-Fibrous
20B	A-20(b)-Mastic/ Dk. Yellow Adhes.	2% Chrysotile ★ 2% Total Asbestos ★Possible contamination from fibrous backing.	6% Cellulose 2% Hair 90% Non-Fibrous
21	A-21/ Pale Gray/Tan Fib.; White Brittle	NAD	40% Cellulose 35% Fibrous Glass 25% Non-Fibrous
22A	A-22(a)-Baseboard/ Gray Vinyl-Like	NAD	100% Non-Fibrous
22B	A-22(b)-Mastic/ Brown Adhes.	NAD	3% Cellulose 97% Non-Fibrous
23A	A-23(a)-Baseboard/ Gray Vinyl-Like	NAD	100% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-11-3218
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
23B	A-23(b)-Mastic/ Brown Adhes.	NAD	3% Cellulose 97% Non-Fibrous
24A	A-24(a)-Baseboard/ Gray Vinyl-Like	NAD	100% Non-Fibrous
24B	A-24(b)-Mastic/ Brown Adhes.	NAD	4% Cellulose 96% Non-Fibrous
25	A-25/ Off-White/Black Fib.	NAD	30% Cellulose 10% Fibrous Glass 15% Synthetic 45% Non-Fibrous
26	A-26/ Off-White/Black Fib.	20% Chrysotile 35% Amosite 55% Total Asbestos ★ ★Chrysotile present throughout sample. Amosite present in the off-white (main) layer.	10% Cellulose 35% Non-Fibrous
27	A-27/ Off-White/Black Fib.	15% Chrysotile 40% Amosite 55% Total Asbestos ★ ★Chrysotile/Amosite present in the off-white(main) layer.	20% Cellulose 25% Non-Fibrous
28	A-28/ Off-White/Black Fib.	12% Chrysotile 12% Total Asbestos ★ ★Present in the dark brown fibrous felt paper layer.	20% Cellulose 18% Fibrous Glass 50% Non-Fibrous
29	A-29/ Off-White/Black Fib.	NAD	40% Cellulose 5% Fibrous Glass 55% Non-Fibrous
30	A-30/ Pale Gray/Black Fib.	3% Chrysotile 22% Amosite 25% Total Asbestos ★ ★Chrysotile/Amosite present in the pale gray (main) layer.	20% Cellulose 55% Non-Fibrous
31	A-31/ Pale Gold/Black Fib.; Black Brittle; Silver Metallic	NAD	15% Cellulose 55% Fibrous Glass 30% Non-Fibrous
32A	A-32(a)-Flooring/ Off-White/White Vinyl-Like; Olive Green Fib.	NAD	15% Cellulose 15% Synthetic 70% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-11-3218
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
32B	A-32(b)-Mastic/ Brown Adhes.	NAD	4% Cellulose 1% Hair 95% Non-Fibrous
33A	A-33(a)-Tile/ Off-White Gran.	2% Chrysotile 2% Total Asbestos	98% Non-Fibrous
33B	A-33(b)-Mastic/ Yellow Adhes.	NAD	4% Cellulose 96% Non-Fibrous
34A	A-34(a)-Tile/ Off-White Gran.	2% Chrysotile 2% Total Asbestos	98% Non-Fibrous
34B	A-34(b)-Mastic/ Yellow Adhes.	NAD	4% Cellulose 96% Non-Fibrous
35	A-35/ Tan Fib.; White Brittle	NAD	90% Cellulose 10% Non-Fibrous
36	A-36/ Tan Fib.; White Brittle	NAD	90% Cellulose 10% Non-Fibrous
37	A-37/ Tan Fib.; White Brittle	NAD	90% Cellulose 10% Non-Fibrous
38	A-38/ Gray Cementitious; Dk. Brown Brittle	NAD	3% Cellulose 97% Non-Fibrous
39	A-39/ Gray Cementitious; Dk. Brown Brittle	NAD	3% Cellulose 97% Non-Fibrous
40	A-40/ Gray Gran.	NAD	3% Cellulose 97% Non-Fibrous
41	A-41/ Brown Fib.	40% Chrysotile 40% Total Asbestos	10% Cellulose 50% Non-Fibrous
42	A-42/ Yellow Fib.	NAD	2% Cellulose 93% Fibrous Glass 5% Non-Fibrous
43	A-43/ Yellow Fib.	NAD	95% Fibrous Glass 5% Non-Fibrous
44	A-44/ White Powdery	NAD	30% Cellulose 70% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-11-3218
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
45	A-45/ White Fib.	NAD	40% Cellulose 40% Fibrous Glass 20% Non-Fibrous
46A	A-46(a)-Tile/ Lt. Tan Solid Tile	NAD	100% Non-Fibrous
46B	A-46(b)-Mastic/ Brown Adhes.	NAD	100% Non-Fibrous
47A	A-47(a)-Tile/ Lt. Tan Solid Tile	NAD	100% Non-Fibrous
47B	A-47(b)-Mastic/ Tan Adhes.	NAD	100% Non-Fibrous
48A	A-48(a)-Tile/ Brown Solid Tile	NAD	100% Non-Fibrous
48B	A-48(b)-Mastic/ Tan Adhes.	NAD	100% Non-Fibrous
49	A-49/ Orange Fib.	NAD	90% Fibrous Glass 10% Non-Fibrous
50	A-50/ Yellow Fib.	NAD	95% Fibrous Glass 5% Non-Fibrous
51	A-51/ Gray Fib.	NAD	2% Cellulose 88% Fibrous Glass 10% Non-Fibrous
52	A-52/ Yellow Fib.	NAD	95% Fibrous Glass 5% Non-Fibrous
53	A-53/ White Gran.	NAD	3% Fibrous Glass 97% Non-Fibrous
54	A-54/ White Gran.	2% Chrysotile 2% Total Asbestos	2% Fibrous Glass 96% Non-Fibrous
55	A-55/ White Gran.; Fib.	15% Chrysotile 15% Total Asbestos	85% Non-Fibrous
56	A-56/ Black Tar-Like	5% Chrysotile 5% Total Asbestos	95% Non-Fibrous
57	A-57/ Brown Fib.	45% Chrysotile 45% Total Asbestos	5% Cellulose 50% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-11-3218
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
58	A-58/ Tan Fib.	NAD	93% Cellulose 7% Non-Fibrous
59	A-59/ Tan Fib.	NAD	95% Cellulose 5% Non-Fibrous
60	A-60/ Beige Fib.	NAD	92% Cellulose 8% Non-Fibrous
61	A-61/ Pale Tan/Off-White Fib.; Black Brittle	30% Chrysotile ★ 30% Total Asbestos ★Present in the felt paper (main) layer.	25% Cellulose 5% Fibrous Glass 40% Non-Fibrous
62	A-62/ Off-White/Black Fib.; Black Brittle	22% Chrysotile 38% Amosite 60% Total Asbestos ★ ★Chrysotile present throughout sample. Amosite present in the off-white (main) layer.	5% Cellulose 35% Non-Fibrous
63	A-63/ Black/Gray Brittle; Off-White Fib.	20% Chrysotile 3% Amosite 23% Total Asbestos ★ ★Chrysotile present throughout sample. Amosite present in the off-white layer.	7% Cellulose 10% Fibrous Glass 60% Non-Fibrous
64	A-64/ Off-White Brittle; Coarse Powder; Gray Brittle	NAD	100% Non-Fibrous
65	A-65/ Off-White Brittle; Coarse Powder; Gray Brittle	NAD	100% Non-Fibrous
66	A-66/ Off-White/Pale Gray Cementitious; Coarse Powder; Pale Pink Brittle	NAD	1% Cellulose 99% Non-Fibrous
67	A-67/ Pale Pink Fib.	NAD	97% Fibrous Glass 3% Non-Fibrous
68	A-68/ Brown/Off-White Fib.; Black Brittle	35% Chrysotile ★ 35% Total Asbestos ★Present in the fibrous felt paper (main) layer.	25% Cellulose 5% Fibrous Glass 35% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

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EHS PROJECT #: 2006-11-3218
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
69	A-69/ Brown/Off-White Fib.; Black Brittle	35% Chrysotile ★ 35% Total Asbestos ★Present in the fibrous felt paper (main) layer.	25% Cellulose 5% Fibrous Glass 35% Non-Fibrous
70	A-70/ Tan Fib.	NAD	90% Synthetic 10% Non-Fibrous
71	A-71/ Tan Fib.	NAD	85% Synthetic 15% Non-Fibrous
72	A-72/ Tan Fib.	NAD	80% Synthetic 20% Non-Fibrous
73	A-73/ Black Tar-Like	20% Chrysotile 20% Total Asbestos	30% Cellulose 50% Non-Fibrous
74	A-74/ Tan Gran.	NAD	100% Non-Fibrous
75	A-75/ Brown Gran.	NAD	5% Cellulose 95% Non-Fibrous
76	A-76/ Brown Gran.	NAD	7% Cellulose 93% Non-Fibrous
77	A-77/ Orange Fib.	NAD	80% Fibrous Glass 20% Non-Fibrous
78	A-78/ Black Tar-Like	NAD	20% Cellulose 80% Non-Fibrous
79	A-79/ Black Fib.	20% Chrysotile 20% Total Asbestos	30% Cellulose 50% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-11-3218
PROJECT: Encycle

QC SAMPLE: M21995-2
NIST REF
M11995-3

QC BLANK: SRM 1866 Fiberglass

REPORTING LIMIT: 1% Asbestos

METHOD: Polarized Light Microscopy, EPA Method 600/R-93/116 *

ANALYST: Melissa Boggs Steiniger
Mark Case
Mark DeLeonardis

Reviewed By Authorized Signatory:
Michael A. Mueller, MPH, Laboratory Director
Howard Varner, General Manager
Irma Faszewski, Quality Assurance Coordinator

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND NAD = no asbestos detected
SCF = suspected ceramic fibers

plm1.dot/07MAR2006/REV2/ MR

ARCADIS 19 PLM

Laboratory Task Order No./P.O. No. _____ EHS **2006-11-3218** **CUSTODY RECORD** Page 1 of 2

Project Number/Name: Encycle

Project Location: Corpus Christi, TX

Laboratory: Environmental Hazards Services

Project Manager: Ken Brandner

Sampler(s)/Affiliation: ARCADIS/Ken Brandner

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Asbestos (PLM)						Remarks	Total
A-1 —	S	11/27/06 12:15		X						Analyze all 79 Samples with this shipment for asbestos using PLM.	1
A-2 —		12:30		X							1
A-3 —		12:45		X							1
A-4		12:55		X							1
A-5 —		13:10		X							1
A-6 —		13:20		X							1
A-7		13:30		X							1
A-8		13:40		X							1
A-9		13:50		X							1
A-10		14:00		X							1
A-11		14:10		X							1
A-12		14:20		X							1
A-13		14:30		X							1
A-14		14:40		X							1
A-15		14:50		X							1
										Total No. of Bottles/Containers	15

SAMPLE CONDITION
Acceptable _____
Inacceptable _____

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: Ken Brandner	Organization: ARCADIS	Date 11/28/06	Time 5PM	Seal Intact? Yes No N/A
Received by:	Organization:	Date / /	Time	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by:	Organization:	Date / /	Time	

Special Instructions/Remarks:
Results to Ken Brandner, ARCADIS, Corpus Christi, TX (Fax 361-883-7565)
5-day turnaround needed. (Phone 361-883-1353)

Delivery Method: ☐ In Person ☒ Common Carrier Federal Express (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

Project Number/Name: Encycle

Project Location: Corpus Christi, TX

Laboratory: Environmental Hazards Services

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Asbestos (PLM)						Remarks	Total
A-16 thru A-28	S	11/27/06 15:00-17:00								13 samples (A-16 thru A-28)	13
A-29 thru A-79	S	11/28/06 8:20-16:45								51 samples (A-29 thru A-79)	51
										* Analyze all 79 samples this shipment for asbestos using PLM.	

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 64

Relinquished by: Ken Brandner	Organization: ARCADIS	Date 11/28/06	Time 5PM	Seal Intact? Yes No N/A
Received by:	Organization:	Date / /	Time	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by:	Organization:	Date / /	Time	

Special Instructions/Remarks: Results to Ken Brandner of ARCADIS Corpus Christi, TX
Need 5-day turnaround (Phone: 361-883-1353; Fax 361-887-7565)

Delivery Method: ☐ In Person ☒ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: ARCADIS Geraghty & Miller
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

DATE OF RECEIPT: 04 Dec 2006
DATE OF ANALYSIS: 04 Dec 2006
DATE OF REPORT: 05 Dec 2006

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-12-0281
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
01	A-80/ Brown Fib.	NAD	60% Cellulose 10% Fibrous Glass 30% Non-Fibrous
02A	A-81(a)-Tile/ Brown Vinyl	NAD	6% Cellulose 94% Non-Fibrous
02B	A-81(b)-Mastic/ Brown/Black Adhes.	NAD	5% Cellulose 95% Non-Fibrous
03A	A-82(a)-Tile/ Brown Vinyl	NAD	6% Cellulose 94% Non-Fibrous
03B	A-82(b)-Mastic/ Brown/Black Adhes.	NAD	4% Cellulose 96% Non-Fibrous
04A	A-83(a)-Tile/ Brown Vinyl	NAD	6% Cellulose 94% Non-Fibrous
04B	A-83(b)-Mastic/ Brown/Black Adhes.	NAD	4% Cellulose 96% Non-Fibrous
05	A-84/ Tan Fib.	NAD	96% Fibrous Glass 4% Non-Fibrous
06	A-85/ Black Tar-Like	8% Chrysotile 8% Total Asbestos	2% Cellulose 90% Non-Fibrous
07	A-86/ Black Tar-Like	6% Chrysotile 6% Total Asbestos	2% Cellulose 92% Non-Fibrous
08A	A-87(a)-TSI/ White Powder	NAD	15% Synthetic 85% Non-Fibrous
08B	A-87(b)-Felt/ Black Fib.	NAD	92% Cellulose 8% Non-Fibrous
09	A-88/ Black Tar-Like	5% Chrysotile 5% Total Asbestos	4% Cellulose 91% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-12-0281
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
10	A-89/ Brown Powder	NAD	5% Fibrous Glass 95% Non-Fibrous
11	A-90/ Black Tar-Like	NAD	20% Cellulose 80% Non-Fibrous
12	A-91/ Brown/Gray Gran;. Black Tar-Like	2% Chrysotile 2% Total Asbestos	1% Cellulose 97% Non-Fibrous
13	A-92/ Black Tar-Like	6% Chrysotile 6% Total Asbestos	2% Cellulose 92% Non-Fibrous
14	A-93/ Black Tar-Like	6% Chrysotile 6% Total Asbestos	6% Cellulose 88% Non-Fibrous
15	A-94/ Black Fib.; Black Tar-Like	20% Chrysotile 20% Total Asbestos	20% Cellulose 60% Non-Fibrous
16	A-95/ Gray Brittle	NAD	100% Non-Fibrous
17	A-96/ Brown Fib.; Tan Powder	NAD	93% Cellulose 7% Non-Fibrous
18	A-97/ Brown Fib.	NAD	60% Cellulose 10% Fibrous Glass 30% Non-Fibrous
19A	A-98(a)-Tile/ Tan Vinyl	4% Chrysotile 4% Total Asbestos	96% Non-Fibrous
19B	A-98(b)-Mastic/ Black Tar-Like	5% Chrysotile 5% Total Asbestos	5% Cellulose 90% Non-Fibrous
20A	A-99(a)-Tile/ Tan Vinyl	4% Chrysotile 4% Total Asbestos	96% Non-Fibrous
20B	A-99(b)-Mastic/ Black Tar-Like	5% Chrysotile 5% Total Asbestos	5% Cellulose 90% Non-Fibrous
21A	A-100(a)-Tile/ Tan Vinyl	4% Chrysotile 4% Total Asbestos	96% Non-Fibrous
21B	A-100(b)-Mastic/ Black Tar-Like	5% Chrysotile 5% Total Asbestos	5% Cellulose 90% Non-Fibrous
22A	A-101(a)-Tile/ Brown Vinyl	NAD	6% Cellulose 94% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-12-0281
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
22B	A-101(b)-Mastic/ Brown Adhes.	NAD	5% Cellulose 95% Non-Fibrous
23A	A-102(a)-Tile/ Brown Vinyl	NAD	6% Cellulose 94% Non-Fibrous
23B	A-102(b)-Mastic/ Brown Adhes.; Brown Fib.	NAD	60% Cellulose 40% Non-Fibrous
24A	A-103(a)-Tile/ Brown Vinyl	NAD	6% Cellulose 94% Non-Fibrous
24B	A-103(b)-Mastic/ Brown Adhes.; Brown Fib.	NAD	55% Cellulose 45% Non-Fibrous
25	A-104/ White Powder; Brown/White Fib.	35% Chrysotile 35% Total Asbestos	35% Cellulose 30% Non-Fibrous
26	A-105/ White Powder; White/Brown Fib.	35% Chrysotile 35% Total Asbestos	35% Cellulose 30% Non-Fibrous
27	A-106/ White Powder; White/Brown Fib.	35% Chrysotile 35% Total Asbestos	35% Cellulose 30% Non-Fibrous
28	A-107/ Black Tar-Like; Tan Fib.	6% Chrysotile 2% Amosite 8% Total Asbestos	2% Cellulose 90% Non-Fibrous
29	A-108/ Black Tar-Like; Tan Fib.	6% Chrysotile 2% Amosite 8% Total Asbestos	2% Cellulose 90% Non-Fibrous
30	A-109/ Black Tar-Like; Tan Fib.	6% Chrysotile 2% Amosite 8% Total Asbestos	2% Cellulose 90% Non-Fibrous
31	A-110/ White Powder; White Fib.	NAD	30% Cellulose 70% Non-Fibrous
32	A-111/ White Powder; White Fib.	NAD	30% Cellulose 70% Non-Fibrous
33	A-112/ White Powder; Black Tar-Like	3% Chrysotile 3% Total Asbestos	6% Cellulose 91% Non-Fibrous
34	A-113/ Gray Powder	NAD	100% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-12-0281
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
35	A-114/ Gray Powder	NAD	100% Non-Fibrous
36	A-115/ Gray Powder	NAD	100% Non-Fibrous
37	A-116/ Black Tar-Like	6% Chrysotile 6% Total Asbestos	3% Cellulose 91% Non-Fibrous
38	A-117/ Black Tar-Like; Black Fib.	NAD	60% Cellulose 40% Non-Fibrous
39	A-118/ White Powder; White Fib.	30% Chrysotile 25% Amosite 55% Total Asbestos	45% Non-Fibrous
40	A-119/ Tan Fib.; Brown Adhes.	NAD	85% Fibrous Glass 15% Non-Fibrous
41	A-120/ White Powder	NAD	20% Synthetic 80% Non-Fibrous
42	A-121/ Black Tar-Like; Gray Fib.	30% Chrysotile 30% Total Asbestos	30% Cellulose 40% Non-Fibrous
43	A-122/ Gray Gran.	NAD	100% Non-Fibrous
44	A-123/ Gray Gran.	NAD	100% Non-Fibrous
45	A-124/ Gray Gran.	NAD	100% Non-Fibrous
46	A-125/ Gray Gran.	NAD	100% Non-Fibrous
47A	A-126(a)-Linoleum/ Green Vinyl; Gray Fib.	20% Chrysotile 20% Total Asbestos	20% Cellulose 60% Non-Fibrous
47B	A-126(b)-Mastic/ Tan Adhes.	Trace, <1% Chrysotile ★ <1% Total Asbestos ★Possible contamination from fibrous backing.	3% Cellulose 97% Non-Fibrous
48	A-127/ Tan Brittle	NAD	100% Non-Fibrous
49	A-128/ Black Tar-Like; Black Fib.	10% Chrysotile 10% Total Asbestos	15% Cellulose 75% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-12-0281
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
50	A-129/ Tan Gran.; Tan Powder	15% Chrysotile 15% Total Asbestos	85% Non-Fibrous
51	A-130/ Brown Powder; Brown Fib.	5% Chrysotile 25% Amosite 30% Total Asbestos	5% Cellulose 65% Non-Fibrous
52	A-131/ Tan Fib.; Tan Powder	35% Chrysotile 35% Total Asbestos	30% Fibrous Glass 35% Non-Fibrous
53	A-132/ Black Tar-Like; Black Fib.	NAD	30% Cellulose 70% Non-Fibrous
54	A-133/ Black Tar-Like	NAD	30% Cellulose 70% Non-Fibrous
55	A-134/ Black Tar-Like	NAD	2% Cellulose 98% Non-Fibrous
56	A-135/ Brown Fib.	NAD	60% Cellulose 10% Fibrous Glass 30% Non-Fibrous
57	A-136/ Yellow Fib.	NAD	96% Fibrous Glass 4% Non-Fibrous
58	A-137/ White Powder; Brown Fib.	NAD	35% Cellulose 65% Non-Fibrous
59	A-138/ Black Tar-Like; Black Fib.	NAD	45% Cellulose 55% Non-Fibrous
60	A-139/ Brown Fib.; Black Tar-Like	NAD	60% Cellulose 40% Non-Fibrous
61	A-140/ Black Tar-Like; Black Fib.	NAD	45% Cellulose 55% Non-Fibrous
62	A-141/ Brown Fib.	NAD	60% Cellulose 10% Fibrous Glass 30% Non-Fibrous
63A	A-142(a)-Tile/ Tan Vinyl	NAD	100% Non-Fibrous
63B	A-142(b)-Mastic/ Brown Adhes.	NAD	2% Cellulose 98% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-12-0281
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
64A	A-143(a)-Tile/ Tan Vinyl	NAD	100% Non-Fibrous
64B	A-143(b)-Mastic/ Brown Adhes.; Tan Powder	NAD	3% Cellulose 97% Non-Fibrous
65A	A-144(a)-Tile/ Tan Vinyl	NAD	100% Non-Fibrous
65B	A-144(b)-Mastic/ Brown Adhes.	NAD	4% Cellulose 96% Non-Fibrous
66A	A-145(a)-Tile/ Blue Vinyl	NAD	100% Non-Fibrous
66B	A-145(b)-Mastic/ Tan Adhes.	NAD	1% Cellulose 99% Non-Fibrous
67A	A-146(a)-Tile/ Blue Vinyl	NAD	100% Non-Fibrous
67B	A-146(b)-Mastic/ Tan Adhes.	NAD	1% Cellulose 99% Non-Fibrous
68A	A-147(a)-Tile/ Blue Vinyl	NAD	100% Non-Fibrous
68B	A-147(b)-Mastic/ Tan/Brown Adhes.	NAD	2% Cellulose 98% Non-Fibrous
69	A-148/ White Powder; Brown Fib.	NAD	35% Cellulose 65% Non-Fibrous
70	A-149/ Black Tar-Like	NAD	35% Cellulose 65% Non-Fibrous
71	A-150/ Black Tar-Like; Black Fib.	NAD	35% Cellulose 65% Non-Fibrous
72	A-151/ Tan Vinyl; Tan Fib.	NAD	35% Cellulose 5% Synthetic 60% Non-Fibrous
73	A-152/ Tan Vinyl; Tan Fib.	NAD	35% Cellulose 5% Synthetic 60% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-12-0281
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
74A	A-153(a)-Linoleum/ Tan Vinyl; Tan Fib.	NAD	35% Cellulose 5% Synthetic 60% Non-Fibrous
74B	A-153(b)-Mastic/ Black Tar-Like	5% Chrysotile 5% Total Asbestos	4% Cellulose 91% Non-Fibrous
75A	A-154(a)-Tile/ Tan Vinyl	NAD	100% Non-Fibrous
75B	A-154(b)-Mastic/ Brown Adhes.	NAD	3% Cellulose 97% Non-Fibrous
76A	A-155(a)-Linoleum/ Brown Vinyl; Tan Fib.	20% Chrysotile 20% Total Asbestos	20% Cellulose 60% Non-Fibrous
76B	A-155(b)-Mastic/ Black Tar-Like	5% Chrysotile 5% Total Asbestos	2% Cellulose 93% Non-Fibrous
77A	A-156(a)-Tile/ Brown Vinyl	5% Chrysotile 5% Total Asbestos	95% Non-Fibrous
77B	A-156(b)-Mastic/ Black Tar-Like	4% Chrysotile 4% Total Asbestos	6% Cellulose 90% Non-Fibrous
78	A-157/ Gray Vinyl; Brown Fib.	NAD	20% Cellulose 80% Non-Fibrous
79	A-158/ Brown Fib.	NAD	60% Cellulose 10% Fibrous Glass 30% Non-Fibrous
80	A-159/ White Powder; Tan Fib.	NAD	30% Cellulose 70% Non-Fibrous
81	A-160/ Gray Powder; Gray Fib.	55% Chrysotile 55% Total Asbestos	45% Non-Fibrous
82	A-161/ Gray Fib.	65% Chrysotile 65% Total Asbestos	20% Cellulose 15% Non-Fibrous
83A	A-162(a)-Tile I/ Tan Vinyl	NAD	100% Non-Fibrous
83B	A-162(b)-Tile II/ Black Vinyl	3% Chrysotile 3% Total Asbestos	97% Non-Fibrous
83C	A-162(c)-Mastic/ Brown Adhes.	NAD	3% Cellulose 97% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-12-0281
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
84A	A-163(a)-Tile/ Gray Vinyl	NAD	100% Non-Fibrous
84B	A-163(b)-Mastic/ Tan Adhes.; White Powder	NAD	2% Cellulose 98% Non-Fibrous
85	A-164/ Brown Fib.	NAD	60% Cellulose 10% Fibrous Glass 30% Non-Fibrous
86	A-165/ White/Black Fib.; White Powder	NAD	30% Cellulose 10% Synthetic 60% Non-Fibrous
87	A-166/ Brown Fib.	NAD	94% Fibrous Glass 6% Non-Fibrous
88A	A-167(a)-Tile/ Gray Vinyl	NAD	100% Non-Fibrous
88B	A-167(b)-Mastic/ Brown Adhes.	NAD	3% Cellulose 97% Non-Fibrous
89A	A-168(a)-Tile/ Brown Vinyl	NAD	100% Non-Fibrous
89B	A-168(b)-Mastic/ Tan Adhes.	NAD	10% Cellulose 90% Non-Fibrous
90	A-169/ Brown Fib.	NAD	60% Cellulose 10% Fibrous Glass 30% Non-Fibrous
91	A-170/ Black Tar-Like; Black Fib.	NAD	45% Cellulose 55% Non-Fibrous
92A	A-171(a)-Tile/ Brown Vinyl	NAD	100% Non-Fibrous
92B	A-171(b)-Mastic/ Brown Adhes.	NAD	2% Cellulose 98% Non-Fibrous
93A	A-172(a)-Tile/ Black Vinyl	NAD	100% Non-Fibrous
93B	A-172(b)-Mastic/ Tan Adhes.	NAD	4% Cellulose 96% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-12-0281
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
94	A-173/ Brown Fib.	NAD	60% Cellulose 10% Fibrous Glass 30% Non-Fibrous
95	A-174/ Yellow Fib.	NAD	96% Fibrous Glass 4% Non-Fibrous
96	A-175/ Brown Fib.	NAD	93% Cellulose 7% Non-Fibrous
97	A-176/ Brown Fib.	NAD	93% Cellulose 7% Non-Fibrous
98	A-177/ Brown Fib.	NAD	93% Cellulose 7% Non-Fibrous
99	A-178/ Black Tar-Like; Black Fib.	NAD	45% Cellulose 55% Non-Fibrous
100A	A-179(a)-Tile/ Tan Vinyl	5% Chrysotile 5% Total Asbestos	95% Non-Fibrous
100B	A-179(b)-Mastic/ Black Tar-Like	6% Chrysotile 6% Total Asbestos	3% Cellulose 91% Non-Fibrous
101A	A-180(a)-Tile/ Tan Vinyl	5% Chrysotile 5% Total Asbestos	95% Non-Fibrous
101B	A-180(b)-Mastic/ Black Tar-Like	6% Chrysotile 6% Total Asbestos	3% Cellulose 91% Non-Fibrous
102A	A-181(a)-Tile/ Tan Vinyl	5% Chrysotile 5% Total Asbestos	95% Non-Fibrous
102B	A-181(b)-Mastic/ Black Tar-Like	6% Chrysotile 6% Total Asbestos	3% Cellulose 91% Non-Fibrous
103	A-182/ Brown Fib.; Tan Powder	NAD	93% Cellulose 7% Non-Fibrous
104A	A-183(a)-Cove Base/ Tan Vinyl	NAD	100% Non-Fibrous
104B	A-183(b)-Mastic/ Tan Adhes.	NAD	3% Cellulose 97% Non-Fibrous
105A	A-184(a)-Cove Base/ Tan Vinyl	NAD	100% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-12-0281
PROJECT: Encycle

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
105B	A-184(b)-Mastic/ Tan Adhes.	NAD	3% Cellulose 97% Non-Fibrous
106A	A-185(a)-Cove Base/ Tan Vinyl	NAD	100% Non-Fibrous
106B	A-185(b)-Mastic/ Tan Adhes.	NAD	4% Cellulose 96% Non-Fibrous
107	A-186/ Red Brittle	11% Chrysotile 11% Total Asbestos	89% Non-Fibrous
108	A-187/ Red Brittle	11% Chrysotile 11% Total Asbestos	89% Non-Fibrous
109	A-188/ Red Brittle	11% Chrysotile 11% Total Asbestos	89% Non-Fibrous

QC SAMPLE: NIST REF

QC BLANK: SRM 1866 Fiberglass

REPORTING LIMIT: 1% Asbestos

METHOD: Polarized Light Microscopy, EPA Method 600/R-93/116 *

ANALYST: Christian H. Schaible

Reviewed By Authorized Signatory: Irma Faszewski

Michael A. Mueller, MPH, Laboratory Director
Howard Varner, General Manager
Irma Faszewski, Quality Assurance Coordinator

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

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* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND NAD = no asbestos detected
SCF = suspected ceramic fibers

plm1.dot/07MAR2006/REV2/ MR

ARCADIS 100 PLM Laboratory Task Ord **EHS 2006-12-0281** _ **CHAIN-OF-CUSTODY RECORD** Page 1 of 2

Project Number/Name: Encycle

Project Location: Corpus Christi, TX

Laboratory: Environmental Hazards Services

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Asbestos (PLM)						Remarks	Total
A-80	S	11/29/06 8:10		X						Analyze all	1
A-81		8:20		X						samples for	1
A-82		8:25		X						asbestos using PLM.	1
A-83		8:30		X							1
A-84		8:40		X							1
A-85		8:50		X							1
A-86		9:00		X							1
A-87		9:10		X							1
A-88		9:20		X							1
A-89		9:30		X							1
A-90		9:40		X							1
A-91		9:50		X							1
A-92		10:00		X							1
A-93		10:10		X							1
A-94		10:20		X							1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 15

SAMPLE CONDITION
Acceptable ✓
Unacceptable

Relinquished by: Kenneth Brandner	Organization: ARCADIS	Date 12 / 04 / 06	Time PM	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A
Relinquished by: 12-4-06	Organization:	Date / /	Time	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks:
Results to Ken Brandner, ARCADIS Corpus Christi, TX (Fax 361-883-7565)
5-day turnaround needed. (Phone: 361-883-1353)

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name: Encycle

Project Location: Corpus Christi, TX

Laboratory: Environmental Hazards Services

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner/ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	(Asbestos-PLM)						Remarks	Total
A-95 thru A-133	S	11/29/06		X						* Analyze all	39
		10:30-16:50								109 samples this	
										shipment for	
A-134 thru A-150	S	11/30/06		X						asbestos using PLM	17
		14:20-16:55									
A-151 thru A-188	S	12/1/06		X							38
		8:10-13:30									

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 94

Relinquished by: Kenneth Brandner	Organization: ARCADIS	Date 12/1/06	Time PM	Seal Intact?
Received by: (12-4-06)	Organization:	Date / /	Time	Yes No N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks:

Results to Ken Brandner, ARCADIS Corpus Christi, TX (Fax 361-883-7565)

5-day turnaround needed (Phone 361-883-1353)

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

ASBESTOS POINT COUNT ANALYSIS SUMMARY

CLIENT: ARCADIS Geraghty & Miller
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

DATE OF RECEIPT: 07 Dec 2006
DATE OF ANALYSIS: 08 Dec 2006
DATE OF REPORT: 09 Dec 2006

CLIENT NUMBER: 45-2081 D
EHS PROJECT #: 2006-12-0907
PROJECT: Encycle; EHS #2006-12-0281

EHS SAMPLE#	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS
01	A162B/ Black Vinyl	1.75% Chrysotile

REPORTING LIMIT: 0.25% Asbestos

METHOD: Polarized Light Microscopy, EPA Method 600/R-93/116

ANALYST: Christian H. Schaible

Reviewed By Authorized Signatory:

Michael A. Mueller, MPH, Laboratory Director
Howard Varner, General Manager
Irma Faszewski, Quality Assurance Coordinator

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319 NY ELAP #11714

LEGEND NAD = no asbestos detected

asbptct1.dot/07JUL2006/REV3/MR

EHS 2006-12-0907

Environmental Hazards Services, LLC

7469 White Pine Road
Richmond, Virginia 23237
(804) 275-4788 Fax (804) 275-4907

Request For POINT COUNT Analysis

Customer Information:
Company Name: Arcadis
Address: 711 North Carancahua
City, State, Zip Corpus Cristi, TX 78475
Contact: Ken

Date: 12-7-06
Phone: 361-883-1353
Fax: 361-883-7565
Project: Encycle
Count: (400) 1000

Client Sample #	EHS Sample #	Sample Location
A162-b	83B	

Date/Time Samples Received: 12-4-06 Received By: Tara
EHS # (original report): 2006-12-0281
Date/Time Request Received: 12-7-06 Received By: Tiffany
Original Analyst: Chris Date Analyzed: 12-4-06

ATTACHMENT 2

Photographs of Asbestos-Containing Materials

Photograph No. 1. Black galvestos coating on the west exterior wall of Facility No. 1, approximately 15 to 30 feet above ground level, view facing south. Photograph taken by K. Brandner, November 27, 2006.

Photograph No. 2. Black galvestos coating on the north exterior wall of Facility No. 2, view facing southeast. Photograph taken by K. Brandner, November 27, 2006.

Photograph No. 3. Black galvestos coating on concrete pillars and south exterior wall of East Cell House, view facing west. Photograph taken by K. Brandner, November 29, 2006.

Photograph No. 4. Black galvestos coating on steel I-beam at east end, 2nd floor of East Cell House, view facing east. Photograph taken by K. Brandner, November 29, 2006.

Photograph No. 5. Black galvestos coating on concrete pillars, exterior wall, and steel pipe at east end of West Cell House, view facing south. Photograph taken by K. Brandner, November 29, 2006.

Photograph No. 6. Black galvestos coating on two large steel cone-shaped tanks north of Facility No. 1, view facing southeast. Photograph taken by K. Brandner, November 27, 2006.

Photograph No. 7. Brown linoleum floor covering in office on 2nd floor of Facility No. 1, view facing southwest. Photograph taken by K. Brandner, November 27, 2006.

Photograph No. 8. Brown linoleum floor covering in office on 2nd floor of Facility No. 2, view facing west. Photograph taken by K. Brandner, November 27, 2006.

Photograph No. 9. White pipe wrap on 2nd floor of Facility No. 1, view facing southwest. Photograph taken by K. Brandner, November 27, 2006.

Photograph No. 10. White pipe wrap on 2nd floor of Facility No. 2, view facing west. Photograph taken by K. Brandner, November 27, 2006.

Photograph No. 11. White pipe wrap on 2nd floor of West Cell House, view facing north. Photograph taken by K. Brandner, November 29, 2006.

Photograph No. 12. White pipe wrap in basement of Admin Building and Lab (Building 46), view facing north. Photograph taken by K. Brandner, December 1, 2006.

Photograph No. 13. 12" x 12" light brown floor tile in office at northeast end of Facility No. 2, view facing north. Photograph taken by K. Brandner, November 28, 2006.

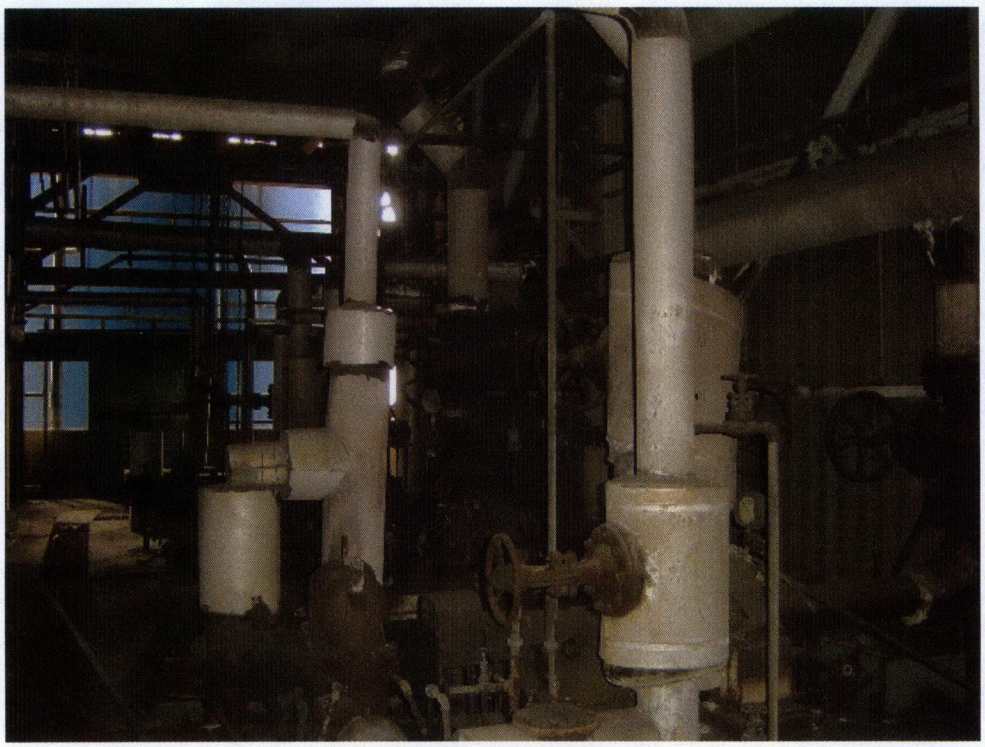
Photograph No. 14. Red brick building in foreground (Building 12) has a tar and gravel roof, view facing east. Blue reactor/clarifier tank in background. Photograph taken by K. Brandner, November 28, 2006.

Photograph No. 15. 9" x 9" light brown floor tile on 2nd floor office at south end of Power House, view facing south. Photograph taken by K. Brandner, November 29, 2006.

Photograph No. 16. 18"-diameter white pipe wrap with orange exterior jacket on steel pipe running north-south approximately 12 feet above ground level above the 1st floor of the Power House, view facing south. Photograph taken by K. Brandner, November 29, 2006.

Photograph No. 17. Boilers on the 2nd floor of the Power House, view facing north. Photograph taken by K. Brandner, November 29, 2006.

Photograph No. 18. Boiler in the Zinc Building, view facing south. Photograph taken by K. Brandner, November 29, 2006.

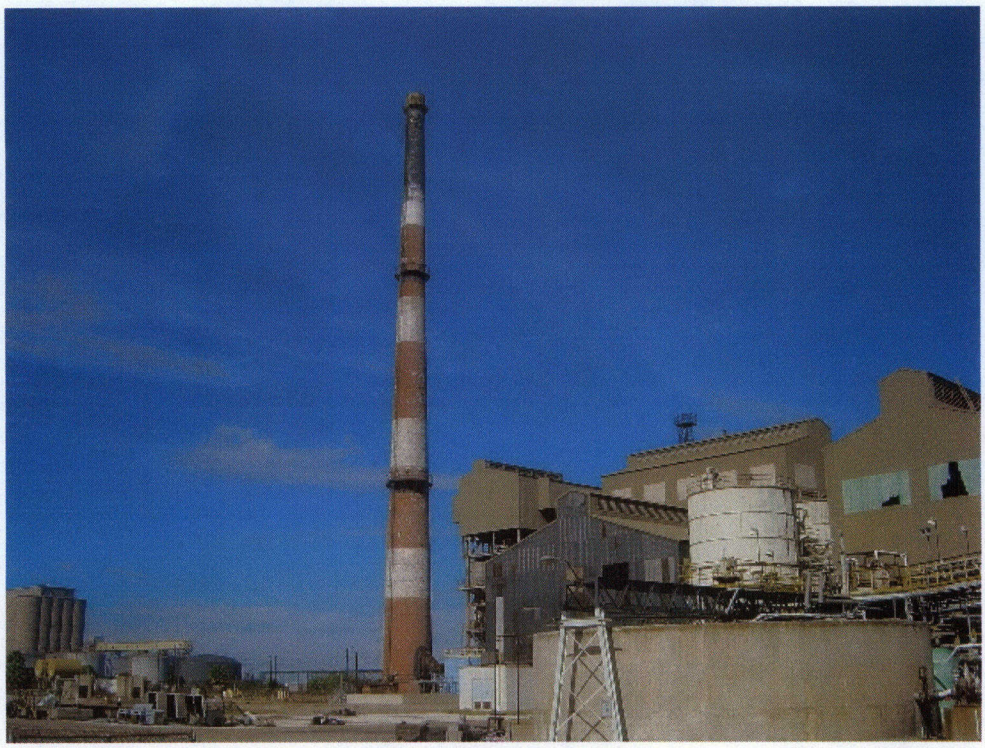


Photograph No. 19. White pipe wrap with outer sheet metal jacket on pipes on the 1st floor at the east end of Facility No. 4, view facing south. Photograph taken by K. Brandner, November 28, 2006.

Photograph No. 20. White pipe wrap with outer sheet metal jacket on pipes on the 1st floor at the southeast end of the Power House, view facing south. Photograph taken by K. Brandner, November 29, 2006.

Photograph No. 21. 12" x 12" white floor tile with light gray streaks in Change House/Guard House, view facing south. Photograph taken by K. Brandner, December 1, 2006.

Photograph No. 22. 9" x 9" cream-white floor tile in office at northeast end of Warehouse Storage Building 51, view facing east. Photograph taken by K. Brandner, December 1, 2006.



Photograph No. 23. Large red and white smokestack directly southwest of Facility No. 4, view facing northwest. Photograph taken by K. Brandner, December 1, 2006.

ATTACHMENT 3

Texas Department of State Health Services Licenses

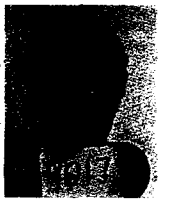
TEXAS
Department of
State Health Services

Control No:
92228

Department of State Health Services certifies that:

KENNETH J BRANDNER

is Licensed as an:
Individual Asbestos Management Planner



License Number: 205050
From: 03/31/2006
To: 03/30/2008

TEXAS DEPARTMENT OF STATE HEALTH SERVICES

Be it known that

ENVIRONMENTAL HAZARDS SERVICES LLC

is certified to perform as a

Asbestos Laboratory
PLM, PCM

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

Eduardo J. Sanchez, M.D., M.P.H
Commissioner of Health

License Number: **300188**

Effective Date: **2/8/2006**

Expiration Date: **2/7/2008**

(Void After Expiration Date)

VOID IF ALTERED

Control Number: **91453**

NON-TRANSFERABLE