



200 E. Randolph Drive, Suite 4700 ♦ Chicago, IL 60601 ♦ (312) 856-8700 ♦ FAX (312) 938-0118

December 29, 2000

Mr. Thomas Alcamo Work Assignment Manager (SR-6J) Remedial Response Unit No. 1 U.S. Environmental Protection Agency Region 5 77 West Jackson Boulevard Chicago, IL 60604

Subject:Field Oversight Summary for November 28 through December 8, 2000Lemon Lane Landfill Site, Bloomington, IndianaContract No. 68-W7-0003, Work Assignment No. 044-RXBF-0529

Dear Mr. Alcamo:

Tetra Tech EM Inc. (Tetra Tech) has prepared the enclosed field oversight summary to document its remedial action oversight activities at the above-referenced site from November 28 through December 8, 2000. CBS Corporation (now Viacom), the responsible party for the site, conducted the remedial action activities. Appendix A of the field oversight summary contains a photographic log of Tetra Tech's field activities, and Appendix B contains a copy of Tetra Tech's oversight field notes.

If you have any questions about the enclosed summary, please call me at (847) 818-7189.

Sincerely,

Raj Rajaram ` Site Manager

Enclosure

cc: Steve Nathan, EPA Project Officer (letter only) David Alberts, EPA Contracting Officer (letter only) Tom Kouris, Tetra Tech Program Manager (letter only)

ENCLOSURE

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FIELD OVERSIGHT SUMMARY FOR NOVEMBER 28 THROUGH DECEMBER 8, 2000 LEMON LANE LANDFILL SITE BLOOMINGTON, INDIANA

(Six Pages)

FIELD OVERSIGHT SUMMARY LEMON LANE LANDFILL SITE BLOOMINGTON, INDIANA

Tetra Tech Oversight Personnel: Reporting Period:

Jason Massey November 28 through December 8, 2000

INTRODUCTION

As requested by the U.S. Environmental Protection Agency (EPA), Tetra Tech EM Inc. (Tetra Tech) is conducting oversight of remedial action (RA) activities at the Lemon Lane Landfill site in Bloomington, Indiana, under Contract No. 68-W7-0003, Work Assignment No. 044-RXBF-0529. CBS Corporation (now Viacom) is the responsible party for the site. PSARA Technologies, Inc. (PSARA), is Viacom's consultant; American Drilling Service (ADS) is Viacom's drilling contractor; WRS Infrastructure and Environment, Inc. (WRS), is Viacom's site remediation contractor; Envirocon is Viacom's geomembrane contractor; and Hanna Trucking is Viacom's hauling contractor. Earth Tech is Tetra Tech's consultant subcontractor.

This report summarizes Tetra Tech's oversight observations and sampling activities from November 28 through December 8, 2000, and discusses issues and developments for the reporting period and future activities. Appendix A of this report contains a photographic log of field activities, and Appendix B contains a copy of Tetra Tech's oversight field notes.

OVERSIGHT OBSERVATIONS

Tuesday, November 28, 2000

Tetra Tech arrived at the site at 8:10 a.m. WRS and PSARA were at the site, which was very wet. The landfill cap was not yet completed because of the conditions. PSARA reported that topsoil was too wet to be delivered to the site. WRS worked on the site perimeter drainage ditch on the southwest side of the landfill (see Photograph No. 1). At 9:00 a.m., WRS began grading the cap toward the site perimeter drainage ditch on the northeast side (see Photograph No. 2). The western portion of the perimeter drainage ditch was complete (see Photograph No. 3). At 9:30 a.m., WRS moved riprap from the staging area and continued work on the perimeter drainage ditch (see Photographs No. 4 and 5).

At 10:00 a.m., Mr. Tom Alcamo of EPA, Mr. Vince Epps of the Indiana Department of Environmental Management (IDEM), and Mr. Dennis Williamson of the Monroe County Health Department (MCHD) arrived at the site for the current RA status meeting. The meeting began at 11:00 a.m., with Tetra Tech, Viacom, PSARA, WRS, EPA, MCHD, and IDEM personnel attending. PSARA reported the information summarized below.

- An estimated 14,385 capacitors, 326,608.57 tons of Toxic Substances and Control Act (TSCA) material, and 4,197.42 tons of non-TSCA material have been removed from all of Viacom's Bloomington sites to date.
- Envirocon has completed placement of all geomembrane, geocomposite, and geotextile material on the landfill cap.
- The southwest retention pond has been lined and graded.
- The 24-inch-diameter drainage pipe has been installed from the southwest retention pond to Sargent's Pond in the northwest portion of the site.
- Viacom and ADS installed a recovery well at the LF-6 location in the southeast portion of the landfill.

Viacom reported 8 to 9 feet of water in the recovery well at the time of installation. At 11:45 a.m., all parties broke for lunch. At 12:30 p.m., all parties (including City of Bloomington Utilities [CBU] employees Mr. John Langley and Ms. Bette Conway) attended an initial site walk-through. The following observations below were noted during the walk-through:

- The perimeter drainage ditch on the north side of the site was complete (see Photograph No. 6).
- The truck route on the east side of the site that leads to Lemon Lane and Gray Street needed pothole repairs and cleanup of mud tracked by hauling vehicles (see Photographs No. 7 and 8).
- RA activities at the Griffin property and the southeast corner of the site were complete (see Photograph No. 9).
- The perimeter drainage ditch on the southeast portion of the site had been prepared for further drilling activities scheduled for November 30, 2000 (see Photographs No. 10).
- The southwest retention pond was complete (see Photograph No. 11).
- Indiana Gas had barricaded off an area on the southwest side of the site to reinstall a gas line (see Photograph No. 12) that was removed prior to RA activities at the site, delaying final construction of the site perimeter fence.

At 1:30 p.m., all parties completed the initial site walk-through. WRS continued to work on the perimeter drainage ditch riprap material. At 1:45 p.m., all government parties left the site. At 3:00 p.m., WRS stopped working on the perimeter drainage ditch, and then resumed adding and grading cover soil on the landfill cap (see Photograph No. 13) because site conditions had improved, allowing soil delivery. Tetra Tech left the site at 4:00 p.m.

Wednesday, November 29, 2000

Tetra Tech arrived at the site at 6:50 a.m. WRS and PSARA were present at the site. At 7:00 a.m., Tetra Tech attended the daily site safety meeting. PSARA reported that topsoil would be delivered to the site today and placed over the soil layer of the landfill cap inside the consolidation limits. PSARA addressed the road conditions of Lemon Lane and Gray Street, stating that WRS will clean the roads. Also, the potholes in the roads will be patched with asphalt.

At 7:20 a.m., WRS prepared a truck route for topsoil delivery. At 7:30 a.m., the first load of topsoil arrived at the site, and WRS began grading cover soil before placement of the topsoil. At 8:30 a.m., more topsoil was delivered to the site (see Photograph No. 14). WRS continued to spread topsoil over the soil layer on the cap as topsoil was delivered to the east side of the site (see Photograph No. 15). At 8:45 a.m., WRS began moving and grading cover soil on the west side of the landfill cap (see Photograph No. 16). In addition, WRS started grading along the riprap on the southwest side of the site (see Photograph No. 17). At 9:00 a.m., WRS finished placing riprap east of the southwest retention pond (see Photograph No. 18).

At 10:45 a.m., WRS continued to load cover soil for placement on the northeast corner of the landfill cap (see Photograph No. 19). At 11:20 a.m., Hanna Trucking delivered topsoil to the northeast side of the cap, while WRS continued spreading and grading the topsoil upon its arrival (see Photograph No. 20). Tetra Tech also observed the intake and outfall areas of the drainage pipe from the southwest retention pond to Sargent's Pond (see Photographs No. 21 and 22). At 12:00 p.m., WRS broke for lunch. Tetra Tech left the site at 12:15 p.m.

Wednesday, December 6, 2000

A final site walk-through was conducted on this day to address any outstanding issues before completion of the Lemon Lane Landfill site RA activities by Viacom. Mr. Raj Rajaram of Tetra Tech attended the final site walk-through along with Mr. Tom Alcamo of EPA, Viacom, PSARA, IDEM, MCHD, and CBU personnel. No further issues were identified. The items discussed during the first site walk-through had been addressed by Viacom. The potholes in Lemon Lane and Gray Street on the east side of the site were patched; however, full repair and cleanup will not occur until spring as the weather becomes more favorable. Also, a temporary site perimeter fence was in the process of being installed in the southwest corner of the site where Indiana Gas had completed installation of a gas line. A permanent site perimeter fence in the southwest corner will be constructed in the near future upon resolution of property deed restrictions with the city of Bloomington.

Friday, December 8, 2000

At the request of EPA, Tetra Tech traveled to Bloomington to sample Quarry Springs after the RA activities had been completed at the Lemon Lane Landfill site. The sampling was to be conducted at these springs southeast of the site and was coordinated with the Illinois Central Spring (ICS) treatment plant facility. Flow at the treatment plant effluent tank was shut down at 10:17 p.m. the previous evening (on December 7, 2000), and a small flow of about 25 gallons per minute from the backwash effluent tank was discharged until 1:17 a.m. on December 8. No treatment plant discharge was to occur until after sampling activities had been completed. During this time, the conduit system below the ICS was allowed to drain for more than 13 hours before sampling occurred, and the water was contained within the treatment plant facility and not discharged.

At 12:00 p.m., Tetra Tech arrived at the Bloomington office of Earth Tech and met with hydrogeologist Mr. John Bassett. At 1:00 p.m., both parties arrived at Quarry Springs southeast of the landfill and ICS. Tetra Tech confirmed with Earth Tech the Quarry Spring A and B sampling locations; however, Quarry Spring C could not be located. Therefore, it was decided that ICS would be sampled instead of Quarry Spring C. In addition, Tetra Tech and Earth Tech located the Quarry Spring A outfall location and discovered very shallow and low-flow conditions at the spring. Therefore, Tetra Tech and Earth Tech dug a small area next to the outfall, allowed the sediment to clear for 30 minutes as the spring water gradually accumulated, and then collected surface water samples later in the day. At 1:30 p.m., Tetra

Tech located the outfall for Quarry Spring B and collected two 1-liter surface water samples (see Photographs No. 23 and 24).

At 1:45 p.m., Earth Tech employee Mr. Brit Luther, plant manager of the ICS treatment plant facility, confirmed that Tetra Tech and Earth Tech had 1 hour left to complete the sampling activities before discharge of treated water to the springs would resume. At 2:00 p.m., both parties proceeded to the ICS sampling location north of the treatment plant facility. Tetra Tech confirmed the outfall location of the spring with Earth Tech and then collected two 1-liter surface water samples (see Photograph No. 25). At 2:20 p.m., both parties arrived back at Quarry Springs. Quarry Spring A was clear and deep enough to sample. Tetra Tech collected two 1-liter surface water samples from Quarry Spring A.

At 2:30 p.m., Tetra Tech and Earth Tech proceeded to the ICS treatment plant facility to inform the plant manager that sampling activities had been completed. At 3:30 p.m., both parties arrived at the Earth Tech office. Tetra Tech prepared the samples for shipment to TriMatrix Laboratories, Inc., in Grand Rapids, Michigan. Tetra Tech requested that the surface water samples be analyzed for polychlorinated biphenyls and total suspended solids. Sample analytical results will be discussed in a future deliverable to EPA.

ISSUES AND DEVELOPMENTS

On November 28, 2000, EPA, IDEM, and MCHD expressed concern about the road conditions of Lemon Lane and Gray Street east of the site. The road conditions had deteriorated because of truck traffic during the RA activities. EPA instructed Viacom to take appropriate measures to clean up the area and eliminate any safety hazard concerns.

On November 29, 2000, PSARA stated to Tetra Tech that the EPA oversight trailer would remain at the site throughout the winter and gave Tetra Tech permission to store future sampling materials in the trailer during this time period. Also on this date, WRS reported that seeding of the topsoil would not take place until December 1, 2000, weather permitting.

The final site walk-through was held on December 6, 2000. Tetra Tech site manager Mr. Raj Rajaram was present for the walk-through along with Mr. Tom Alcamo of EPA. All RA activities had been completed and were inspected at this time. No serious issues were identified.

On December 8, 2000, Earth Tech informed Tetra Tech that Quarry Spring C could not be located and therefore would not be sampled as originally planned along with Quarry Springs A and B; however, ICS was sampled in its place.

FUTURE ACTIVITIES

As directed by EPA, Tetra Tech will conduct oversight of future activities performed in association with the Lemon Lane Landfill site and provide EPA with field oversight summaries. Planned future activities at the Lemon Lane Landfill site include (1) further conduit investigations by Viacom, and (2) further characterization of fish, surface water, and sediment.

APPENDIX A

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PHOTOGRAPHIC LOG LEMON LANE LANDFILL SITE

(13 Pages)

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Photograph No. 1 Orientation: Southeast Description: WRS working on site perimeter drainage ditch

Location: Lemon Lane Landfill Date: November 28, 2000



Photograph No. 2Location: Lemon Lane LandfillOrientation: NorthDate: November 28, 2000Description: WRS grading landfill cap toward site perimeter drainage ditch



Photograph No. 3Location: Lemon Lane LandfillOrientation: South-SouthwestDate: November 28, 2000Description: Completed western portion of site perimeter drainage ditch



Photograph No. 4 Orientation: Southeast Description: WRS moving riprap

Location: Lemon Lane Landfill Date: November 28, 2000



Photograph No. 5Location: Lemon Lane LandfillOrientation: SouthDate: November 28, 2000Description: WRS placing riprap in site perimeter drainage ditch



Photograph No. 6Location: Lemon Lane LandfillOrientation: NorthwestDate: November 28, 2000Description: Completed site perimeter drainage ditch on north side of site



Photograph No. 7Location: Lemon Lane LandfillOrientation: EastDate: November 28, 2000Description: Truck route on east side of site to Lemon Lane and Gray Street



Photograph No. 8Location: Lemon Lane LandfillOrientation: NorthDate: November 28, 2000Description: View of Lemon Lane, which was used as truck route for east side site access



Photograph No. 9 Orientation: Southeast Description: Griffin property and southeast corner of site

Location: Lemon Lane Landfill Date: November 28, 2000



Photograph No. 10Location: Lemon Lane LandfillOrientation: EastDate: November 28, 2000Description: Site perimeter drainage ditch on southeast side, with drilling rig in background



Photograph No. 11Location: Lemon Lane LandfillOrientation: NorthwestDate: November 28, 2000Description: Site perimeter drainage ditch on southwest side of landfill, with retention pond in background



Photograph No. 12Location: Lemon Lane LandfillOrientation: SouthwestDate: November 28, 2000Description: Area on southwest side of landfill that was barricaded off by Indiana Gas



Photograph No. 13Location: Lemon Lane LandfillOrientation: SoutheastDate: November 28, 2000Description: WRS grading cover soil on southwest corner of landfill cap



Photograph No. 14 Orientation: East-Northeast Description: Topsoil delivery to northeast corner of landfill

Location: Lemon Lane Landfill Date: November 29, 2000



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Photograph No. 15Location: Lemon Lane LandfillOrientation: NortheastDate: November 29, 2000Description: WRS spreading topsoil on northeast portion of landfill cap



Photograph No. 16Location: Lemon Lane LandfillOrientation: SouthwestDate: November 29, 2000Description: WRS applying cover soil on west side of landfill cap



Photograph No. 17Location: Lemon Lane LandfillOrientation: SouthDate: November 29, 2000Description: WRS grading soil along riprap on southwest perimeter of landfill



Photograph No. 18Location: Lemon Lane LandfillOrientation: SoutheastDate: November 29, 2000Description: Riprap in site perimeter drainage ditch east of southwest retention pond



Photograph No. 19 Orientation: Southwest Description: WRS loading cover soil

Location: Lemon Lane Landfill Date: November 29, 2000



Photograph No. 20 Orientation: Northeast Description: Topsoil delivery to northeast side of landfill cap Location: Lemon Lane Landfill Date: November 29, 2000



Photograph No. 21Location: Lemon Lane LandfillOrientation: NortheastDate: November 29, 2000Description: Drainage pipe intake from southwest retention pond to Sargent's Pond



Photograph No. 22Location: Lemon Lane LandfillOrientation: SouthwestDate: November 29, 2000Description: Drainage pipe outfall area from southwest retention pond to Sargent's Pond



Photograph No. 23Location: Quarry SpringsOrientation: SouthwestDate: December 8, 2000Description: Tetra Tech collecting 1-liter surface water sample from Quarry Spring B



Photograph No. 24Location: Quarry SpringsOrientation: SouthwestDate: December 8, 2000Description: Tetra Tech collecting 1-liter surface water sample from Quarry Spring B



Photograph No. 25Location: Illinois CentralOrientation: NorthwestDate: December 8, 2000Description: Tetra Tech collecting 1-liter surface water sample from ICS

APPENDIX B

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OVERSIGHT FIELD NOTES LEMON LANE LANDFILL SITE

(Three Sheets)

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