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Subject RCRA Field Investigation Update

Hello, All,

Here is the update for the week of May 30. Please call if you have questions or need additional information.

Field Investigation Update 060506

Field Work Completed Week of May 30 – June 3, 2006. The KNC field team and contractors continued investigations at three SWMUs and offsite during this period.

At SWMU 8, KNC completed all of the cleared sample locations using the direct-push rig.

At SWMU 10, KNC found only 6 inches to 1 ft of lime in the borings at the sample locations. The two northernmost sample locations were moved slightly south (approx. 5-10 feet), since the original locations had a lime thickness of less than 3 inches, which precluded obtaining adequate samples. Due to minimal lime thickness, the field team had to eliminate one sample level from each boring. As planned, the team took samples of the native soil beneath the lime fill. Due to the shallow lime thickness, and because the steep slopes of the pond sides were difficult for the DPT rig to access, the field team sampled using a hand auger rather than the DPT rig.

At SWMU 7, drilling at the four original locations in the plan showed no evidence of the former general trash landfill. The project team did further research on old aerial photographs. No photos were available for the period during which the former owner's records indicated that the landfill was in operation (1976 – 79). However, using photos from 1973 and 1981, and refining their understanding of specific related features with input from long-term employees, the project team developed an additional set of potential sample points to be tested with the DPT rig. At the site of the new trash landfill borings, the team completed four borings. Two of these yielded evidence of the presence of the landfill (See Findings).

On the Crane property southeast of the facility, the team drilled the planned boring with the sonic rig down into the Graneros, but no groundwater was encountered. (See Findings).

The field team completed the pads for the 8 monitoring wells recently installed and started developing wells. Even with three hours of development, it was not possible to

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obtain completely clear water. Sampling was postponed to implement techniques to address this issue.

Activities Planned for the Remainder of June: During the week of June 5, the field team will take groundwater samples from the recently-installed wells. During this week, additional hand-auger borings may also be completed based on previous findings at several SWMUs and AOCs.

The field team will work with a backhoe or trenching contractor to investigate the magnetic anomaly to the east of SWMU 7. Identified in the geophysical survey, this feature appears to be an abandoned recovery well. It is planned to complete this work prior to the return of the DPT contractor on June 19.

During the week of June 19, the field team and the DPT contractor will complete the sampling program at SWMUs 8 and 11, and at AOCs 1 and 4. At SWMU 8, the team plans to directionally drill S08-SB01 and S08-SB02 with the DPT rig. See Findings.

Findings: During the additional investigation of the former trash landfill, the first new sample point, just south of the existing 10-34-0 tank, showed no evidence of the landfill. Moving east, near the SE corner of the tank area, the team encountered about 2 ft of cover soil and 3 ft of landfill materials (rusted metal and asphalt debris). A third boring straight east 30 ft found nothing. Moving to the final location 30 ft straight north, the team again encountered landfill materials consisting of 2 ft of cover soil; and about 6" of landfill material. Below this was what appeared to be a concrete vault (3" of concrete, 3 ft. of void space and another 3" of concrete), followed by one foot of landfill material. Following that, the team drilled one foot into the native soil.

At SWMU 8, locations SB12 and SB13 cannot be drilled due to subsurface utilities and aboveground interferences, and it is not possible to find reasonably close alternative locations.

Since the boring location for the Crane property, as defined in the original plan, was a dry hole, KNC plans to install another well in the near future south-southeast of recovery well TW-77 for adequate plume delineation. Meanwhile, the dry hole was completed as a monitoring well in accordance with the guidelines discussed with EPA and KDHE on May 18 – 19. The team screened this well in the zone where groundwater has been found in the other wells. The project team believes that this completion is advisable since, even though the boring is currently dry, the lack of ground water may be due to the effects of the pumping system. It is possible that the water level may come back up during the optimization of the recovery system, when some of the recovery pumps are taken off-line.

Recommendations: the team will install bladder pumps, similar to those used in the old monitoring wells, in the newly-installed wells. It is anticipated that the intervening

stabilization period and the use of these pumps will allow for better quality samples.

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