Table F.2. Summary of ORNL NPDES excursions, 1995

Date	Location	Excursion	Explanation	Corrective Action
02/16/95	X01 (Sewage Treatment Plant)	Fecal coliform limit excursion	On February 16, 1995, the ORNL Sewage Treatment Plant (X01) experienced an exceedance of the fecal coliform permit limit. Suspended solids, dissolved oxygen, and chlorine levels were all normal at the time of the excursion. Rainfall occurred on February 16, 1995. STP staff were unable to determine a cause for this exceedance.	The ORNL analytical lab was consulted and indicated no STP effluent constituents that could have influenced the February 16, 1995 fecal coliform count. No specific cause was determined; therefore, no corrective action was developed.
06/21/95	X01 (Sewage Treatment Plant)	Total residual chlorine limit excursion	An automatic valve that feeds chlorine to the contact chamber in the STP Chlorinator Building (Building 2643) malfunctioned.	The valve was switched to manual-control mode until June 22, 1995 AM when instrument technicians recalibrated the control signal to the automatic control valve that feeds the chlorine. No impact on White Oak Creek species was observed.
10/05/95	X01 (Sewage Treatment Plant)	Fecal coliform limit excursion	On October 5, 1995 the ORNL Sewage Treatment Plant (STP) experienced an excursion of the fecal coliform bacteria limit. Rainfall occurred on October 5, 1995.	Possible causes included routine maintenance taking place at the time of sample collection and sample compromised by rainfall intrusion. Procedural controls were put in place to address these issues.
06/28/95	X02 (Coal Yard Runoff Treatment	Oil and grease limit excursion	The specific cause of this o&g nonconformance could not be ascertained. Operating conditions at the CYRTF were normal on June 28, 1995.	A general plant project, Upgrade CYRTF, includes installation of an oil/water separator for the CYRTF. The upgrade was complete as of May 1996. This oil/water separator should help to preclude further o&g noncompliance.
10/25/95	X02 (Coal Yard Runoff Treatment	Total suspended solids limit excursion	On October 25, 1995 the ORNL Coal Yard Runoff Treatment Facility (CYRTF) experienced an excursion of the total suspended solids (TSS) limit. There was no indication of problems or unusual conditions during the time the composite sample was being collected.	No certain cause for the TSS excursion was determined. Therefore corrective actions have been developed. The CYRTF has undergone an upgrade project, which is expected to enhance the NPDES permit compliance capabilities of that facility.
9/13/95	211	Unpermitted discharge via an NPDES Outfall	A cloudy effluent was observed at NPDES Outfall 211, a stormwater and cooling water discharge pipe in the main ORNL plant complex. The source of the cloudy effluent, which flowed into White Oak Creek (WOC), was determined to be in-situ grouting work inside a storm drain manhole. A grout and sand mixture was in use.	Construction contractors tasked with sealing sanitary-sewer manholes had inadvertently begun work in a storm drain manhole. Work was stopped immediately until the mistake was resolved. No long-term environmental effects resulted from this incident; schools of fish were observed in the creek soon after the cloudy release ceased.
11/5/95	207	Visible oil sheen	During rainfall, a visible sheen was sighted on White Oak Creek (WOC) as a result of stormwater runoff effluent from Outfall 207, which conveys stormwater runoff from street and parking lot catch basins in the ORNL 3500 Area. The sheen was visible on the surface of WOC to a distance of approximately 20 feet to 30 feet downstream from Outfall 207.	ORNL spill response personnel were able to capture a portion of the sheen at the bank of WOC using absorbent pads. The substance which caused the sheen had the appearance of a light oil or fuel; total amount estimated to be less than 1 gallon. The release was of very short duration. ORNL personnel traced the storm drain network but no source of the release was found. The sheen was attributed to surface residue being conveyed by rain runoff through Outfall 207. No evidence of adverse impact on aquatic species was found.
Calendar	Category I&II	Total suspended	20 TSS limit excursions were measured at	Eight of the exceedances were

Table F.2 (continued)

Date	Location	Excursion	Explanation	Corrective Action
Year 1995	Outfalls (stormwater runoff)	solids	18 outfalls during 7 storm sampling events.	corrected with minor improvements in erosion controls. Four of the exceedances will be or have been corrected by physically removing the outfall. Six of the exceedances were not attributed to a specific cause and are being watched for possible causes. Two of the exceedances will be corrected when the outfall pipe is reconfigured so as to improve the representativeness of future samples.