

# **Assessment of Perchlorate Releases** **In Launch Operations III**

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**Abstract:**

A method for predicting potential perchlorate releases from accidental launch failures has been developed for use in planning and managing launch activities where solid rocket motors are used. The method is also applicable to assessing location and quantity of perchlorate release in the event that a launch failure has already occurred. A representative hypothetical case study is presented to illustrate time scales for potential perchlorate release into bodies of water under different conditions of temperature and salinity. The report also contains an analysis of water samples (for metals and other contaminants) in which solid propellant samples were immersed for 11 months.