

## Instructions for Creating the RPS GIS Submittals Extent Areas

### Introduction

Site specific Extent Areas may be generated for each of the three media examined by the RPS: soil, groundwater and vapor. **Please note that site specific extent areas are ONLY applicable for those media where the extent of the contamination associated with that media has been fully delineated.** Otherwise, generic extent areas created by the Site Remediation Program will continue to be generated for those media where delineation is not complete (for additional information regarding generic Extent Areas, please refer to the [New Jersey Remedial Priority Scoring Basis and Background](#) Guidance Document). For soil, this would include delineation to the applicable Residential Direct Contact Soil Cleanup Standard. For ground water, it would include delineation the groundwater contamination to the Ground Water Remediation Standards. For Vapor, this would include delineating the ground water contamination to the extent needed (Ground Water Screening Level) to fully assess the VI pathway. Site specific Extent Areas are required to be provided as a GIS shape file using the shape file template located at [http://www.nj.gov/dep/srp/srra/rps/feedback\\_loop.html](http://www.nj.gov/dep/srp/srra/rps/feedback_loop.html).

### Shape File Structure

Please note that the shape file template only consists of 3 file types (rps\_extent.shp, rps\_extent.dbf, rps\_extent.shx). There are 3 additional file types sometimes associated with a GIS shape file (.prj; .sbn; and .sbx), but these file types are not needed and will not be able to be attached to the online service. The data structure for the rps\_extent.dbf file is:

<u>Field Name</u>	<u>Type</u>	<u>Valid Values</u>
ID	number	
ExtentType	text	soil. Groundwater, vapor
Pref_ID	text	preferred ID for the site

### How to Submit Extent Areas

Download the RPS\_Extent shape file from the [RPS Feedback Web Site](#). To create a site specific Extent Area, import the RPS\_Extent shape file into ArcGIS, create a polygon identifying the Extent Area for each of the applicable media, and identify the specific media (soil; groundwater or vapor) under the field labeled Extent Type in the RPS\_Extent attribute table. The site specific Extent Areas for soil and

## **Instructions for Creating the RPS GIS Submittals Extent Areas**

groundwater should be based on the delineation of the media to the standards specified above while the vapor site specific Extent Area should be based on the appropriate buffer (30 ft for petroleum hydrocarbon based volatile organics/free product or 100 ft for all non-petroleum hydrocarbon volatile organics/free product and any other non-volatile organic compounds that are a vapor intrusion concern as per the Department's [Vapor Intrusion Guidance Document](#)) around the delineation specified above for the vapor media. When finished creating the polygon(s) for the appropriate site specific Extent Areas, save the shape file with the updated site specific Extent Areas.

### **Submitting Shape Files to the Department**

The rps\_extent.shp, rps\_extent.dbf and rps\_extent.shx files, along with the "RPS Feedback Form" (and LOCLIST.DBF file, if necessary) shall be attached during to the RPS Feedback Loop service submittal. Please follow the [RPS Feedback Loop Submittal directions](#) while submitting the Shape files via the Online service.

Please note that any site specific Extent Areas created using CAD must first be converted to a shape file (making sure that all the fields and field names specified in the RPS\_Extent.shp file are present) and then provided the three files through the NJDEP Online Service.