



## METHANE ASSESSMENT & MITIGATION

### PHASE 1 – ENVIRONMENTAL SITE ASSESSMENT

Applicants shall provide to the City of Chino, Building Division, a report addressing whether the property in question was ever used as a dairy, poultry ranch, hog ranch, livestock food operation, manure stock pile site, manure burial site, agricultural pond or for any other purpose that might result in the deposition of materials which might produce a significant concentration of methane. The report shall be prepared by a licensed engineer, geologist or registered environmental assessor and shall, at a minimum, include the following:

- 1) Historic aerial photos.
- 2) Historic topographic map review.
- 3) Interview with the owner/land managers for possible locations of potential methane generation.
- 4) Site reconnaissance and geomorphic evaluation, etc.
- 5) Where necessary, as part of geotechnical investigation work, probe potential high methane concentration areas, and submit report to the City of Chino, Public Works Department for review.
- 6) Prior to subdivision map recordation, all areas of potential methane generation shall be identified and provided to the City of Chino, Building Division for review.
- 7) Incorporate findings and conclusions of the site assessment into the soils report. The maximum organics permitted is 2%.

#### *Methane Investigation and Design Guidelines*

SITE CONDITION MEASURED METHANE (PPM)	MITIGATION CONCEPTS
<15,000	Provide a moisture barrier at least 10-mil thick. Seal utility conduits and penetrations in moisture barrier in an approved method prescribed by the geotechnical engineer and/or methane specialist.
>15,000	Provide a moisture barrier at least 10-mil thick. Seal utility conduits and penetrations in moisture barrier in an approved method prescribed by the geotechnical engineer and/or methane specialist. Perform any special remediation required by the geotechnical engineer and methane specialist.
Waste burial site, pond, lowland, etc	Provide required remediation pursuant to environmental site assessment report prepared by the geotechnical engineer and/or methane specialist.

- All finished graded lots in potential high risk methane areas, as identified in the Phase 1 Assessment, shall be tested per the geotechnical engineer, and mitigation, at a minimum, shall be as shown in the design guideline table.
- Post grading testing may only be waived if it can be established to the City's satisfaction that the area in question was never a dairy, poultry ranch, hog ranch, livestock feed operation, manure stockpile site, manure burial site or for any other purpose that might result in the deposition of materials which could produce significant concentration of methane.
- Required methane mitigation measures for finished graded lots shall have a written description and lots subject to mitigation, identified on the cover sheet of the approved building plans.

**NOTE:** PRIOR TO PERMIT ISSUANCE, METHANE TEST REPORTS AND MITIGATION MEASURES MUST BE SUBMITTED TO THE CITY OF CHINO, BUILDING DIVISION FOR REVIEW AND APPROVAL.