



Curtis & Tompkins, Ltd.

Analytical Laboratories, Since 1878



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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 209535
ANALYTICAL REPORT

Fairmount Minerals
2069 N. 3462nd Road
Wedron, IL 60557

Project : STANDARD

Level : II

Sample ID
FLEXSAND

Lab ID
209535-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: 
Senior Program Manager

Date: 02/11/2009

Signature: 
Project Manager

Date: 02/11/2009

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 209535
Client: Fairmount Minerals
Request Date: 01/26/09
Samples Received: 01/26/09

This data package contains sample and QC results for one flexsand sample, requested for the above referenced project on 01/26/09. The sample was received intact.

Semivolatile Organics by GC/MS (EPA 8270C):

Low surrogate recoveries were observed for a number of analytes in FLEXSAND (lab # 209535-001), due to matrix interference; these low surrogate recoveries were confirmed by re-extraction and re-analysis. Aniline and phenol were not detected as target compounds; benzothiazole was searched for but not detected by library search on all non-target peaks. No other analytical problems were encountered.

Metals (EPA 6010B):

Chromium and lead were not detected; zinc was detected at a level below the freshwater aquatic life criteria of 120 ug/L. No analytical problems were encountered.

209535

LEAD TEST FOR INFILL TURE

TESTS: The proposed synthetic turf materials must meet the following test requirements and criteria:

1. Infill-aqueous test: After infill material is prepared in accordance with EPA Method 1312 Synthetic Precipitation Leaching Procedure (SPLP), a total analysis shall be performed to determine heavy metal content in accordance with either EPA Method 6010 or EPA Method 6020. Semi-volatile organic content shall be determined under Method 8270C and shall include data for aniline (CAS #62-53-3), phenol (108-95-2) and benzothiazole (95-16-9). Heavy metal content shall not exceed NYS DEC Groundwater Standards. Total lead (Pb) content shall not exceed .025 parts per million (ppm), total Chromium (Cr) content shall not exceed .05 parts per million (ppm), total Zinc (Zn) shall not exceed Federal freshwater aquatic life criteria (120 ug/l).
2. Carpet fibers-solid digestion test: After carpet fibers are prepared in accordance with EPA Method 3052 (solid microwave digestion procedure), a total analysis shall be performed to determine heavy metal content in accordance with either EPA Method 6010 or EPA Method 6020. Total lead (Pb) content shall not exceed 100 parts per million (ppm) and the total Chromium (Cr) content shall not exceed 25 parts per million (ppm).

Testing shall be conducted by an independent environmental laboratory accredited by the National Environmental Laboratory Accreditation Program (NELAP). The Contractor shall submit certification that the proposed laboratory is NELAP accredited to perform environmental analyses for the metals in question in both (a.) non potable water and (b.) solid and hazardous waste. If the laboratory is situated in the State of New York, NELAP accreditation must be provided by the New York State Department of Health Environmental Laboratory Approval Program (Wadsworth center).

Laboratories outside New York State may obtain this accreditation from any State that issues NELAP accreditation.

Rev. 11/19/2008 J:\CELIA\Synthetic turf\lead test for infill turf.docx submitted by Celia Petersen, RLA

COOLER RECEIPT CHECKLIST



Login # 709535 Date Received 1-26-09 Number of coolers 1 Envelope
Client FAIRMONT MINERALS Project

Date Opened 1-26-09 By (print) S. EVANS (sign) [Signature]
Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) UPS # YES NO
Shipping info 17 44W FIG 01 9006 2893

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Cloth material, Foam blocks, Cardboard, Bags, Styrofoam, None, Paper towels

7. Temperature documentation:

Type of ice used: Wet Blue/Gel None Temp(C)

- Samples Received on ice & cold without a temperature blank
Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples? YES NO N/A

16. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

NO COC REC'D
REC'D 1/26/09 10:30 [Signature]

Semivolatile Organics by GC/MS

Lab #:	209535	Prep:	EPA 3520C
Client:	Fairmount Minerals	Analysis:	EPA 8270C
Project#:	STANDARD		
Field ID:	FLEXSAND	Batch#:	147713
Lab ID:	209535-001	Sampled:	01/26/09
Matrix:	SPLP Leachate	Received:	01/26/09
Units:	ug/L	Prepared:	02/07/09
Diln Fac:	1.000	Analyzed:	02/09/09

Analyte	Result	RL
N-Nitrosodimethylamine	ND	10
Phenol	ND	10
Aniline	ND	10
bis(2-Chloroethyl)ether	ND	10
2-Chlorophenol	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
Benzyl alcohol	ND	10
1,2-Dichlorobenzene	ND	10
2-Methylphenol	ND	10
bis(2-Chloroisopropyl) ether	ND	10
4-Methylphenol	ND	10
N-Nitroso-di-n-propylamine	ND	10
Hexachloroethane	ND	10
Nitrobenzene	ND	10
Isophorone	ND	10
2-Nitrophenol	ND	20
2,4-Dimethylphenol	ND	10
Benzoic acid	ND	50
bis(2-Chloroethoxy)methane	ND	10
2,4-Dichlorophenol	ND	10
1,2,4-Trichlorobenzene	ND	10
Naphthalene	ND	10
4-Chloroaniline	ND	10
Hexachlorobutadiene	ND	10
4-Chloro-3-methylphenol	ND	10
2-Methylnaphthalene	ND	10
Hexachlorocyclopentadiene	ND	50
2,4,6-Trichlorophenol	ND	10
2,4,5-Trichlorophenol	ND	10
2-Chloronaphthalene	ND	10
2-Nitroaniline	ND	20
Dimethylphthalate	ND	10
Acenaphthylene	ND	10
2,6-Dinitrotoluene	ND	10
3-Nitroaniline	ND	20
Acenaphthene	ND	10
2,4-Dinitrophenol	ND	50
4-Nitrophenol	ND	20
Dibenzofuran	ND	10
2,4-Dinitrotoluene	ND	10
Diethylphthalate	ND	10
Fluorene	ND	10
4-Chlorophenyl-phenylether	ND	10
4-Nitroaniline	ND	20
4,6-Dinitro-2-methylphenol	ND	50
N-Nitrosodiphenylamine	ND	10
Azobenzene	ND	10
4-Bromophenyl-phenylether	ND	10
Hexachlorobenzene	ND	10
Pentachlorophenol	ND	20
Phenanthrene	ND	10
Anthracene	ND	10

*= Value outside of QC limits; see narrative

ND= Not Detected

RL= Reporting Limit

Semivolatile Organics by GC/MS			
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Client:	Fairmount Minerals	Analysis:	EPA 8270C
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Lab ID:	209535-001	Sampled:	01/26/09
Matrix:	SPLP Leachate	Received:	01/26/09
Units:	ug/L	Prepared:	02/07/09
Diln Fac:	1.000	Analyzed:	02/09/09

Analyte	Result	RL
Di-n-butylphthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Butylbenzylphthalate	ND	10
3,3'-Dichlorobenzidine	ND	20
Benzo(a)anthracene	ND	10
Chrysene	ND	10
bis(2-Ethylhexyl)phthalate	ND	10
Di-n-octylphthalate	ND	10
Benzo(b)fluoranthene	ND	10
Benzo(k)fluoranthene	ND	10
Benzo(a)pyrene	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Dibenz(a,h)anthracene	ND	10
Benzo(g,h,i)perylene	ND	10

Surrogate	%REC	Limits
2-Fluorophenol	0 *	40-120
Phenol-d5	2 *	43-120
2,4,6-Tribromophenol	8 *	40-122
Nitrobenzene-d5	48 *	56-120
2-Fluorobiphenyl	72	55-120
Terphenyl-d14	74	34-120

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit

