



TECHNICAL SPECIFICATIONS

(Contest Rules)

Denver Chapter Engineers Without Borders

Sand Sculpture Contest

Soda Lakes Beach

Bear Creek Lake Park

Lakewood, Colorado

August 9, 2008

2008 Version 1.0 (6-09-08)



EVENT SUMMARY

What: Second Annual Sand Sculpture Contest
Where: Soda Lakes Beach, Bear Creek Lake Park, Lakewood
When: Saturday, August 9, 2007

PRE-CONTEST REQUIREMENTS

- Friday, July 18: Registration deadline
- Week of August 4th: Optional Team Captain meeting
- Saturday, August 9th: Contest date

REGISTRATION

- Teams up to 10 people
- Entry form can be found at the EWB website:
(www.ewbdenver.org/2008-sand-sculpture)
- Entry form and entry fee (\$500 for private corporations and \$150 for non-profit organizations) are due on Friday, July 18 (see <http://www.ewbdenver.org/2008-sand-sculpture> for additional information)

CONTEST SCHEDULE

- Team check-in will occur from 7:30 am to 8:30 am
- Sand sculpture construction will occur from 8:30 am to 1:00 pm
- Judging will occur from 1:00 pm to about 2:00 pm
- Awards will be presented immediately following the judging – location TBD

ADDITIONAL QUESTIONS

Please contact Jim Gusek (720) 920-4627 jgusek@golder.com with additional questions.

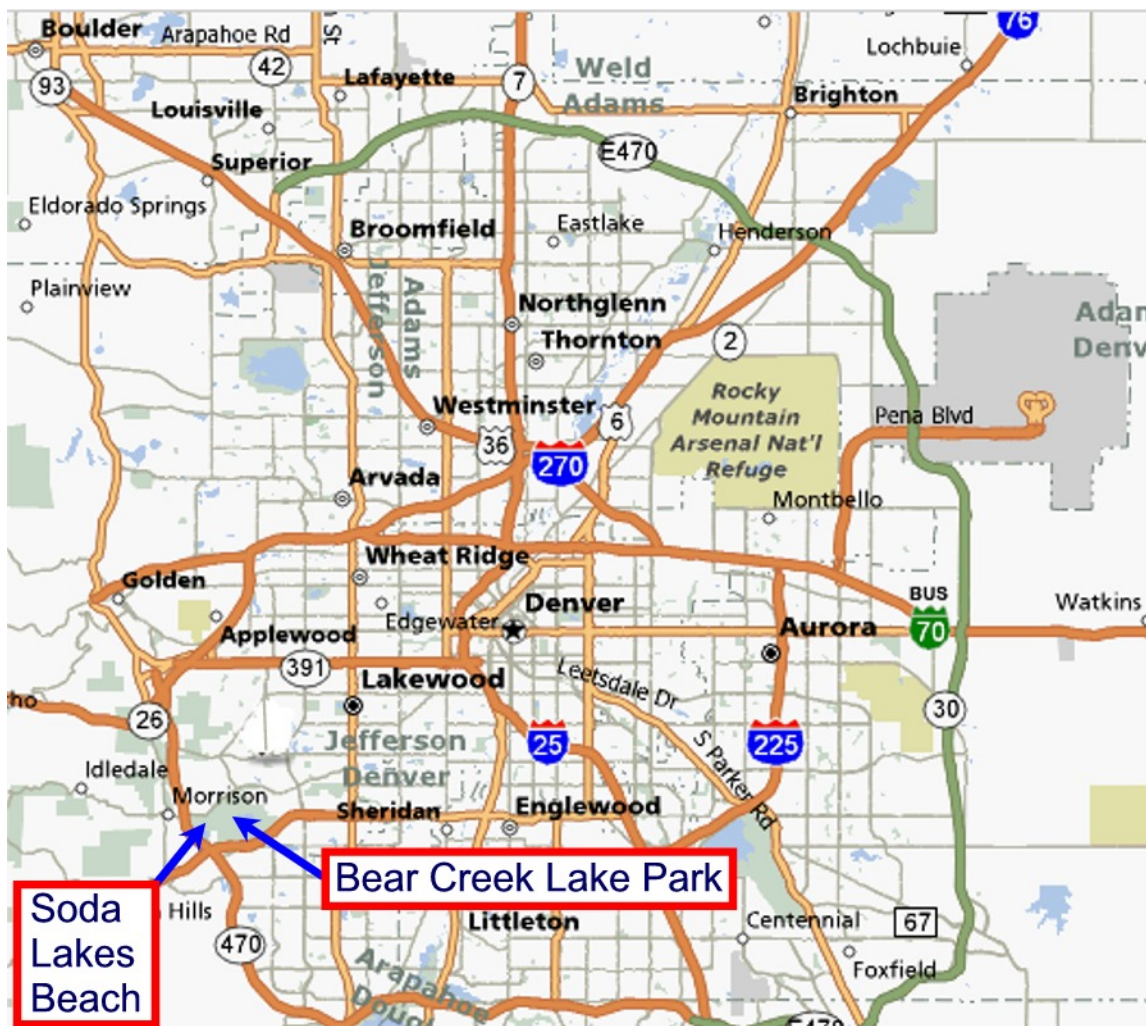


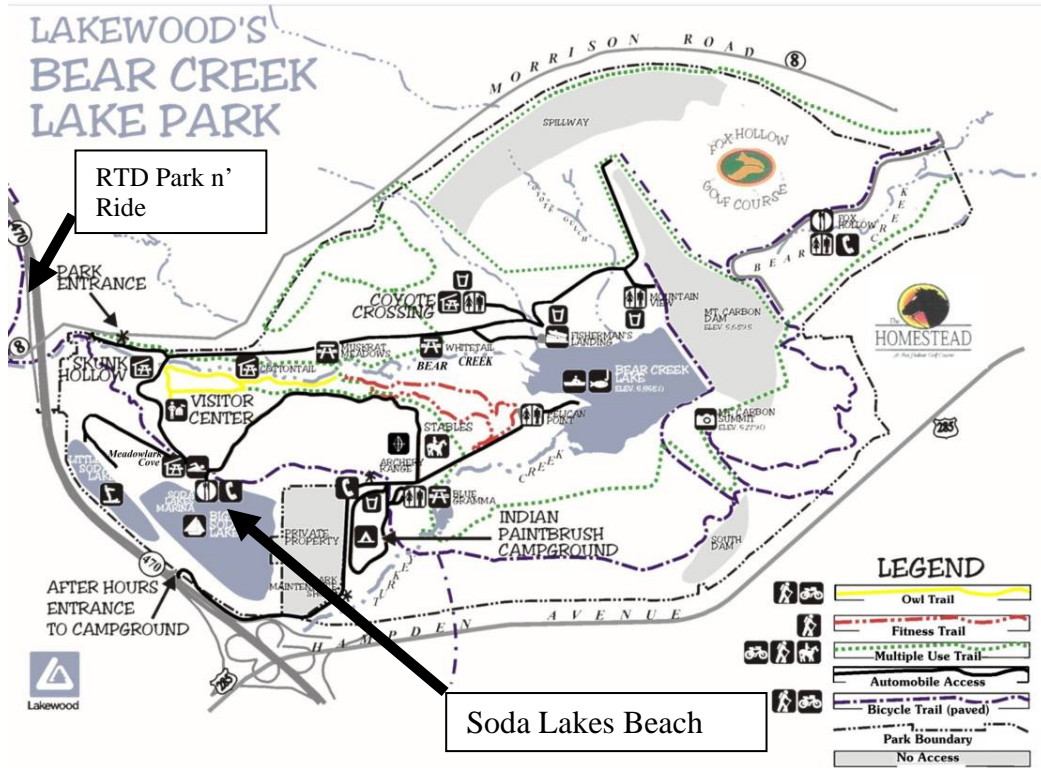
1.0 Project Description

1.1 The EWB Sand Sculpture Contest

The Denver Chapter of Engineers Without Borders (“EWB”) has organized a sand sculpture contest.

Please join us for a day of fun, creativity, and competition during EWB-Denver’s Second Annual Sand Sculpture Contest. The event will be held on Saturday, August 9, 2008 at the Soda Lakes Beach in Bear Creek Lake Park in Lakewood. Various location maps are provided below.







Teams – of up to 10 people will build their sand sculpture during the event. Prizes will be awarded for various categories and the sculptures constructed on the morning of the event. Sand sculptures will be open for viewing with prizes awarded in the afternoon. Additional information, including the official event brochure, can be found on the following website: <http://www.ewbdenver.org/2008-sand-sculpture>.

Additional details about Bear Creek Lake Park can be found at the following website:

<http://www.lakewood.org/comres/page.cfm?ID=43&BearCreekLakePark/>

2.0 Registration

2.1 *Deadline*

Please send check and completed entry form to:

Mark Donohue, EWB Sand Sculpture Contest
2525 S. Clayton St.
Denver, CO 80210

Checks should be made payable to: **ENGINEERS WITHOUT BORDERS-USA with Denver Chapter Sand Sculpture Contest on the comment line**

Registration entry forms and entry fees must be received by **Friday, July 18, 2008**. Contact Jim Gusek, Event Coordinator, to request an extension.

2.2 *Entry Form*

Registration entry form can be found in the official event brochure, in the following website: <http://www.ewbdenver.org/2008-sand-sculpture>. A Team Captain will be identified in the entry form.

2.3 *Entry Fee*

- a. The entry fee for a corporate team or individual is \$500 (tax-deductible). The entry fee for a non-profit organization is \$150 (tax-deductible). Donations above the entry fee will be gratefully accepted and may be eligible for an award.



- b. Again, entry fees should be checks made payable to: **“Engineers Without Border USA”** with **“Denver Chapter Sand Sculpture Contest”** in the comment line or written somewhere on the face of the check.
- c. W-9 forms documenting receipt of entry fees will be sent to Team Captains by about September 15, 2008.

2.4 Multiple Team Entries

- a.. Corporations, individuals, and other affiliated groups may submit up to two entries. However, these entries will be judged individually and the contest sand allotment may not be combined into a single sand structure.

2.5 Cancellation

- a. Fees with the completed entry form (see attachments) must be received by Friday, **July 18, 2008** to confirm entry in the contest.
- b. Late entries received after Friday, July 18, 2008 may be accepted at discretion of the Event Coordinator as long as there are no teams on the waiting list.
- c. The contest is limited to the **first 30 teams** with paid registration. The Team Captain will be notified if a team is not one of the first 30 teams registered; the team will be placed on a waiting list.
- d. If a registered team cancels, it will forfeit its entry fee and teams on the waiting list will be substituted in order.

3.0 Pre-Contest Requirements

3.1 Optional Team Captain Meeting

- a. Team Captains may wish to attend a “pre-construction” meeting during the week of August 4 (location and time to be determined). Rules and additional questions will be discussed during this meeting. Teams will be notified of the details by email.
- b. Team Captains will be provided an opportunity to receive a small sample of sand at this meeting.



3.2 Activity Release

- a. All team members and contest participants **must** sign the City of Lakewood Release (attached) – no exceptions - and provide the signed copy to EWB at check-in. This is a requirement for our event permit from the City of Lakewood.
- b. Blank release forms will be available at the Check-In table on event day but contestants are requested to bring their signed release forms with them.

4.0 Contest Requirements

4.1 Contest Location & Logistics

- a. The Sand Sculpture Contest will be held at the north end of Soda Lakes Beach in Bear Creek Lake Park, Lakewood, Colorado.
- b. Team check-in on the day of the event shall be held at the Meadow Lark Picnic Shelter, just north of the beach; see maps in Section 1.
- c. Daily admission to the Park is \$5 per vehicle (\$4 for seniors); each team entered will receive three (3) Daily Park Passes in advance when EWB-Denver receives the team's entry fees.
- d. Carpooling is encouraged; there is an RTD Park and Ride parking lot off the C-470 exit to Morrison Road. See map on page 4.
- e. If contestants wish to enter the park in more than three vehicles, the extra daily park fees are their own responsibility.
- f. Parking spaces are limited; the paved parking lot adjacent to the Meadow Lark Picnic Shelter has been reserved for contestants. If additional parking is necessary, signs and/or EWB-personnel will direct overflow traffic.
- g. Contestants are requested not to park in the lots immediately adjacent to the beach or the boat ramp.

4.2 Schedule

- a. The Sand Sculpture Contest will be held on Saturday, August 9, 2008.



- b. Check-in will occur from 7:30 am to 8:30 am.
- c. Sand structure construction will occur from 8:30 am to 1:00 pm.
- d. Judging will begin promptly at 1:00 pm.
- e. The awards ceremony will be held as soon as possible at the conclusion of the judging. The location of the ceremony will be provided in the check-in packet.

4.3 Sculpture Space

- a. Each team will be allocated a working space that is a minimum of 10 feet by 10 feet.

4.4 Water

- a. Teams may use water from Soda Lake for sand sculptures. The team should be prepared to transport the water from the lake shore to their sand allotment/contest entry area. The shore is about 100 feet from the contest area.

4.5 Tools

- a. Each team will be provided with two (2) five-gallon plastic buckets for its use. These become the team's property and they may be taken home.
- b. Each team will provide its own tools. Tools may **not** be motorized or battery powered. Many websites and books provide useful tool lists for sand sculpting; teams are encouraged to be innovative.
- c. Teams are encouraged, but not required, to use molds. Molds can be used to create complex shapes, facilitate compaction, and generally save time. For example, an ice cube tray can be used to quickly recreate the crenulations on the top of sand castle walls.

4.6 Sculpture Accessories

- a. Each team is not required but may use up to one pound (454 grams) of sculpture "accessories" to enhance its sculpture. These may include flags, banners, scale vegetation, castle armaments, etc.
- b. Sculpture accessories may be prepared by the team in advance of the contest.



- c. Such accessories must be comprised of natural materials such as plant stems, flower petals, tree bark, grass/straw, tree branches, hair, etc. If glue is used to assemble the accessories, it may be man-made.

4.7 Team Banner and Entry Explanation Sheet

- a. Each team may erect a team banner at the rear of its allocated space that identifies their organization. The team must remove the banner at the end of the contest.
- b. **Each team shall provide a explanation sheet** no larger than 11 inches by 17 inches, optionally mounted on cardboard, that provides background information on their entry. The sheet may include a design sketch, what the entry is about, or other pertinent information. **The sheet content will not be judged but the complete lack of the sheet will result in five (5) lost points in judging the entry.**

4.8 Sculpture Protection

- a. Each team will be responsible for preserving their sculpture until it is judged. This may involve applying a water mist to preserve the moisture conditions of the sculpture surface.

4.9 Sculpture Demolition

- a. Teams are requested to remove any sculpture accessories at the conclusion of the judging. This may be waived on request from the team or EWB Denver.
- b. Sand sculptures will be demolished at a later date by EWB; teams are requested to leave their sculpture for other park visitors to enjoy that day and the following day.

5.0 Sand Specification

5.1 Quantity

- a. Each team will be provided with about three (3) loose cubic yards of sand.
- b. Each team will be provided with an area of about 100 feet (10 x 10 square). The team will construct its sculpture within the confines of the area.



5.2 Sand Characteristics

- a. The sand to be used in the contest meets the following approximate gradation:

Sieve	Particle Size (mm)	% Passing	Particle Size	
			Classification	Percentage
0.75"	19.00	100.0		
0.375"	9.50	97.4		
#4	4.75	94.0	Fine Gravel	6.00
#10	2.00	88.6	Coarse Sand	5.37
#20	0.85	75.8	Medium Sand	32.72
#40	0.43	55.9		
#60	0.25	38.9		
#100	0.15	29.6	Fine Sand	33.69
#200	0.08	22.2		
Moisture Content: 10.7%			Fines	22.22

- b. The moisture content of the sand on contest day is unknown and may not be optimal for sculpting. However, it appears that a sand sample can hold its form if pressed into a baseball-sized mold.
- c. The sand provided may contain a trace amount (much less than a percent) of 2 cm diameter material. Teams may harvest this oversize material and use it creatively or they may discard it in a corner of their working space.
- d. The sand appears to contain enough fines to render it plastic with the proper amount of moisture. Teams may consider segregating a portion of their sand allotment to create a high-moisture content “paste” that may be applied in any number of creative situations.

6.0 Judging & Awards

- a. Sand sculpture judging will begin at 1:00 pm. Awards will be presented as soon as possible after the judging forms are tallied.
- b. Sand sculptures will be judged by an independent panel of three judges.
- c. Sand sculptures will be judged based on the following criteria:



Judging Criteria	Maximum Points	Comments
Relative Height	5	How tall is the sculpture compared to its neighbors and other entries?
Realism	10	Can you tell what it is? Attention to scale consistency throughout if it's a structure
Attention to Detail & Use of Accessories	10	Abundance and care applying surface textures and building complicated design elements. Accessories can significantly enhance the overall appearance of the sculpture. How effectively does the team use its one pound allowance?
Structural Engineering	10	How'd they do that? – inclusion of arches, flying buttresses, cantilevered elements, vertical walls, overhangs, etc.
Explanation Sheet (required)	5	Teams communicate information about their sculpture, perhaps something about the creative process or history of their subject. See Section 4.7.B
“Wow” Factor	10	These are discretionary points available for each judge to express his/her overall impression of the sculpture with all the design and execution elements combined into a single number.
Total	50	

- e. There will be two main judging categories:
- **Engineered Structure** (real or imagined subject) – this can be a building, castle, bridge, or other man-designed and constructed facility.
 - **Open Sculpture** (real or imagined object) – this “open” category is up to the team’s imagination, sand sculpting skills, and the geotechnical characteristics of the sand.
- f. A **“Donation Champion”** award may be granted to the team who raised the most money, either by sending in more than the required entry fee, or soliciting independent donations to EWB Denver prior to or on the day of the event.
- g. An award will be granted to the team whose sculpture is deemed **“The People’s Choice”**. On request, park visitors and team members will be each issued a single vote slip/ballot to vote for their favorite. Children under 12 will be issued two votes. **Unlike last year, donated money does NOT count toward the People’s Choice award tally (see Donation Champion above) even though the votes and donations might be placed in the same receptacle.**



ATTACHMENTS

Judging Form

City of Lakewood Activity Release



**Denver Chapter Engineers Without Borders
Sand Sculpture Contest Judging Form
Soda Lakes Beach, Bear Creek Lake Park – August 9th, 2008**

Judge _____

Entry Name/No. _____

Description of Entry _____

Judging Category (Check one)

- Structure** (castle/building, etc.)
- Open Sculpture** (anything goes)

Scoring

- | | | | |
|-----------|---|------------------|------------|
| 1. | Relative Height (to top of sand) | 1 -5 | Score_____ |
| 2. | Realism (You can tell what it is- life size?) | 1 -10 | Score_____ |
| 3. | Attention to Detail & Use of Accessories | 1 -10 | Score_____ |
| 4. | Structural Engineering (how'd they do that? -
arches, flying buttresses, cantilevered elements) | 1 -10 | Score_____ |
| 5. | Entry Explanation Sign (11 x 17) | Zero or 5 | Score_____ |
| 6. | Wow Factor (discretionary points) | 1 -10 | Score_____ |

TOTAL SCORE out of 50 _____

(Judges: EWB Denver volunteers will do the addition on request)



CITY OF LAKEWOOD

Release

THIS RELEASE is executed on this 9th day of August, 2008, by _____ who resides at _____, hereinafter referred to as "Releasor."

Releasor signs this Release in favor of the City of Lakewood, a municipal corporation of the State of Colorado, 480 South Allison Parkway, Lakewood, Colorado 80226, sometimes hereinafter referred to as City.

THIS RELEASE is for the following activity:

Denver Chapter Engineers Without Borders Sand Sculpture Contest

Location of activity:

Soda Lakes Beach, Bear Creek Lake Park

Time period of activity:

7:30 am to 3:00 pm

By signing this Release, the Releasor accepts and understands that, in consideration of the City allowing the Releasor to participate in the above-described activity, the Releasor waives any and all claims against the City of Lakewood, whether based on contract, negligence or otherwise, which may arise as any damages the Releasor may suffer as a result of his or her participation in the above-described activity. Releasor releases the City, its officers, employees, agents and assigns regarding any claims, costs and expenses which arise out of the above-described activity.

Nothing in this form shall be construed to waive, limit, or otherwise modify any governmental immunity that may be available under the Colorado Governmental Immunity Act, C.R.S. 24-10-101, et seq., to the City, its officials, employees, agents or other persons acting on behalf of the City.

Should any provision of this Agreement be held invalid, illegal or unenforceable, it shall not affect or impair the validity, legality or enforceability of any other provision of this Agreement.

I hereby represent that I have read, understand and agree to the contents of this Release and sign the same voluntarily.

RELEASOR:

Date: _____