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Director

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State Engineer



DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES  
DIVISION OF WATER RESOURCES

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<http://water.nv.gov>

March 18, 2013

Jay Steinberg  
Nevada Environmental Response Trust  
35 Wacker Drive, Suite 1550  
Chicago, Illinois 60606

Re: Aquifer Retention Pond GW-11, J-665.

Dear Mr. Steinberg:

On February 25, 2013, Michael Anderson, P.E. inspected the above named structure in the company of Nita J. Shinn and Steve Kubacki. The purpose of the inspection was to determine the dam condition with respect to safety. Aquifer Retention Pond GW-11 is currently listed as a **low** hazard dam with respect to downstream conditions.

The annual report of seep detection and collection dated February 5, 2013, has been received, thank you.

Based on the visual inspection (copy enclosed), the following actions are recommended:

IMMEDIATE

Mark the two areas discovered on the north and east ends near the key trench for repair.

SHORT TERM

Schedule repairs to (minor) liner damage discovered and survey the liner for further damage.

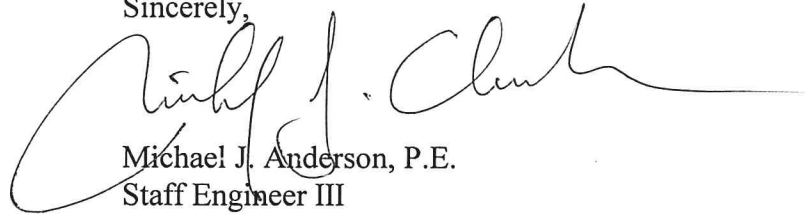
LONG TERM

The minor erosion gullies, predominantly on the north and east sides, should be repaired.

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Aquifer Retention Pond GW-11, J-665  
Nevada Environmental Response Trust

If you have any questions regarding this matter, please feel free to email the undersigned at [manderson@water.nv.gov](mailto:manderson@water.nv.gov) or call at (775) 684-2843.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael J. Anderson". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Michael J. Anderson, P.E.  
Staff Engineer III

MJA/sg

Enclosure

cc: Allan DeLorme, Environ International Corp.  
John M. Pekala, Environ International Corp.

Dam ID: I-665

Downstream hazard: HIGH SIGNIFICANT/LOW decided  
4 in database

Inspection date: 2/25/13

### NEVADA DIVISION OF WATER RESOURCES

### DAM SAFETY INSPECTION OBSERVATIONS

#### I. BACKGROUND

A. Dam name: Agg. for Retention / GW-11 B. Stream: None

C. County: Clark D. Contact: Nita Skran

phone #: 702 446 0336 address: Environ International Corp.

E. Land status (dam, reservoir & immediate vicinity): 333 West Wacker Dr., Ste 2700 Chicago, IL 60606

(X) public - specify: State owns land Mike Skrowyda

(X) private - specify: Leased by Tronox sent letter to Environ

( ) other - specify: \_\_\_\_\_

#### F. Downstream development:

(X) Residential: 1/2 mi. Community name: Henderson

( ) Industrial/commercial: \_\_\_\_\_ mi. ( ) Agricultural: \_\_\_\_\_ mi. ( ) Undeveloped

( ) Other: \_\_\_\_\_

G. Last inspection date: None Recommendations: \_\_\_\_\_

H. Dam stats: Dam use: Industrial Containment limited Max. embankment height: \_\_\_\_\_

Spillway: YES/NO Dimensions (width x depth): \_\_\_\_\_

Raise of previous structure? YES/NO Previous permit(s): \_\_\_\_\_

#### II. GENERAL

A. Inspection personnel: Mike Skrowyda, David Lam, Chris Carrier, Nita Skran

B. Vicinity (U/S conditions, new D/S hazard, ancillary development, etc.): Industrial area  
Large storm water diversion due to removal of contaminated soil

C. Weather conditions: Clear 46°F

D. Comments: Bring Hardhat & Safety Glasses - Respirator for CI needed

#### III. EMBANKMENT & ABUTMENTS

A. Type: Earth lined - HDPE

B. Integrity (erosion, beaching, sloughing, vandalism, cracking, etc): Good  
Minor ponding & small erosion gullies w/ N. access rd cut, too.

Dam ID: J 665

Inspection date: 2/25/13

Integrity (cont.) 2 small tears in primary weir @ key trench NE corner.

C. Seeps (amount & location, illustrate on pg. 4/5): no

D. Vegetative cover & rodent activity (type, severity & location, show on pg. 4/5): Minimal veg. no rodents

E. Monuments & instrumentation (separate sheet for data may be required): seep detection & water level.

F. Comments:

IV. SPILLWAY(S)

A. Type, number & location (illustrate on pg. 4/5): ( ) Emergency None

( ) Service

( ) Other

B. Control: ( ) Uncontrolled ( ) Controlled: ( ) Gates ( ) Flashboards ( ) Other:

Freeboard over control: Machinery:

C. Integrity (condition of concrete & machinery, debris, erosion, etc.):

D. Approach and outfall channels (erosion, debris, siltation, etc.):

E. Comments:

V. OUTLET WORKS

A. Type, number and location (service, tunnel, pressurized pipe, etc.): HDPE overflow to plant. Pipes below that

Dam ID: J-665

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B. Condition (debris, trash rack, concrete, etc.):  
\_\_\_\_\_  
\_\_\_\_\_

C. Valves/gates: Location: ( ) Inlet ( ) Outlet ( ) Wet well ( ) Dry well ( ) Guard ( ) Other:  
Condition: \_\_\_\_\_  
\_\_\_\_\_

Accessibility (particularly under high spillway flow): \_\_\_\_\_  
\_\_\_\_\_

D. Conduits inspected?: ( ) YES  NO Vent?: ( ) YES  NO  
( ) Steel pipe ( ) Corr. metal pipe (CMP) ( ) Concrete pipe (RCP) ( ) Lined tunnel ( ) Unlined tunnel  
Dimensions: \_\_\_\_\_  
Condition: \_\_\_\_\_  
\_\_\_\_\_

E. Instrumentation/gauges: \_\_\_\_\_

F. Comments: \_\_\_\_\_  
\_\_\_\_\_


VI. RESERVOIR

A. Water storage (or relative stage): ~30 <sup>three feet</sup> deep ~1/2 full ~1/4 full

B. Condition/comments (shoreline stability, debris, siltation, etc.): "Normal" water level


VII. RECOMMENDATIONS & COMMENTS

Nita J. Shinn, MSc  
Senior Associate




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STEVE KUBACKI  
Project Manager

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Dam ID: J-665

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VIII. ILLUSTRATIONS/ADDENDUMS

A. Draw plan and elevation views of the dam showing appurtenances, outlets, spillways, access roads, trouble spots or seeps. Indicate photograph angles.

