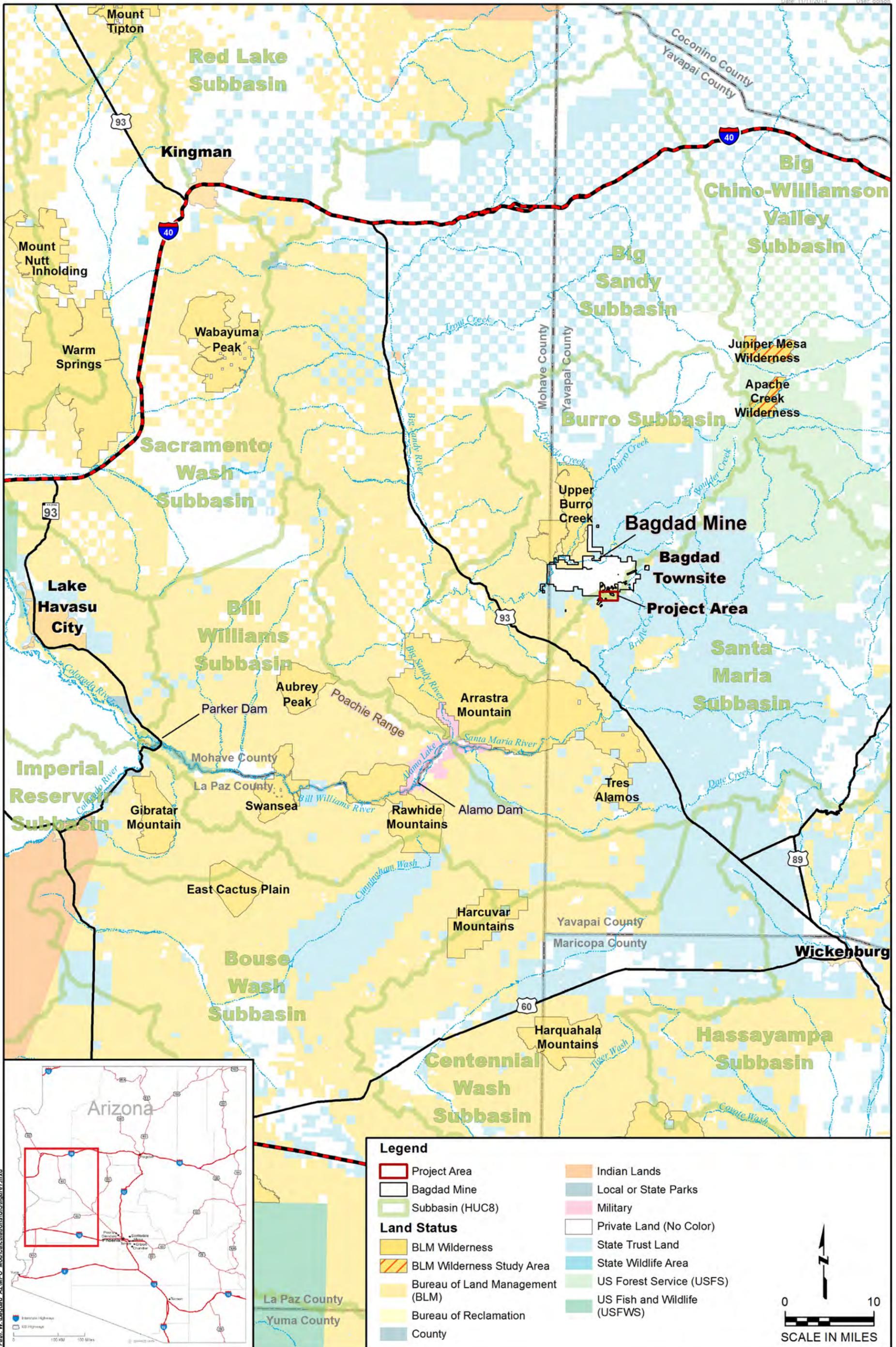


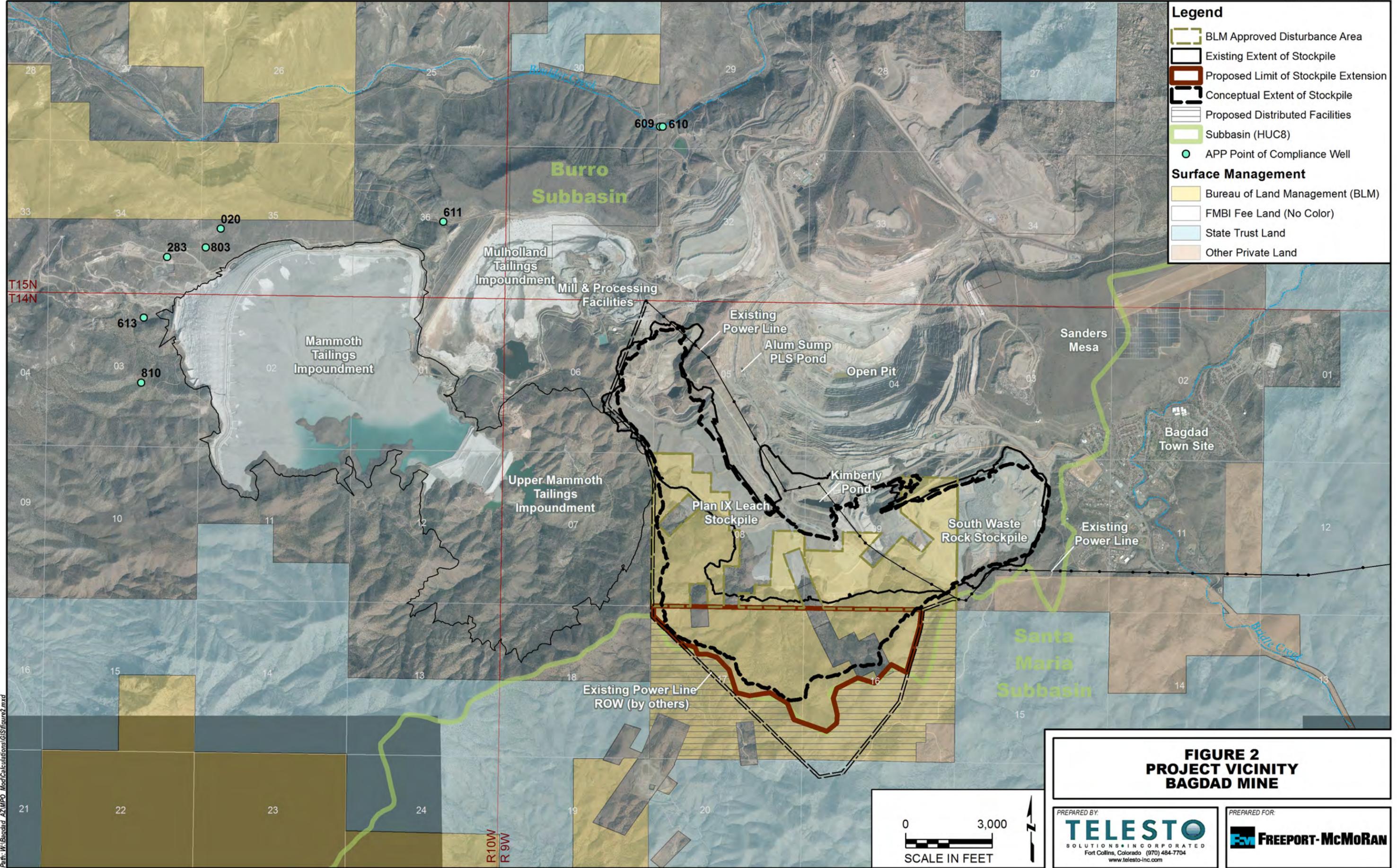
FIGURES

- Figure 1 Regional Overview
- Figure 2 Project Vicinity
- Figure 3 Approved Disturbance and Existing Features
- Figure 4 Proposed Features (Aerial)
- Figure 5 Proposed Features (Topography)
- Figure 6 Groundwater Elevation and Gradient
- Figure 7 Conceptual Stockpile Configuration
- Figure 8 Cross Sections of Conceptual Stockpile Configuration
- Figure 9 Typical Raffinate Distribution Piping Layout
- Figure 10 Surficial Geology
- Figure 11 Biological Resources

-- This page left intentionally blank --



Path: W:\Beredad_AZ\MPO_Mod\Calculations\GIS\figures1.mxd



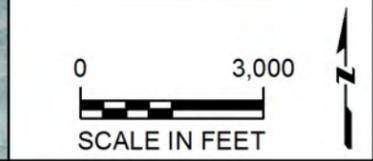
Legend

- BLM Approved Disturbance Area
- Existing Extent of Stockpile
- Proposed Limit of Stockpile Extension
- Conceptual Extent of Stockpile
- Proposed Distributed Facilities
- Subbasin (HUC8)
- APP Point of Compliance Well

Surface Management

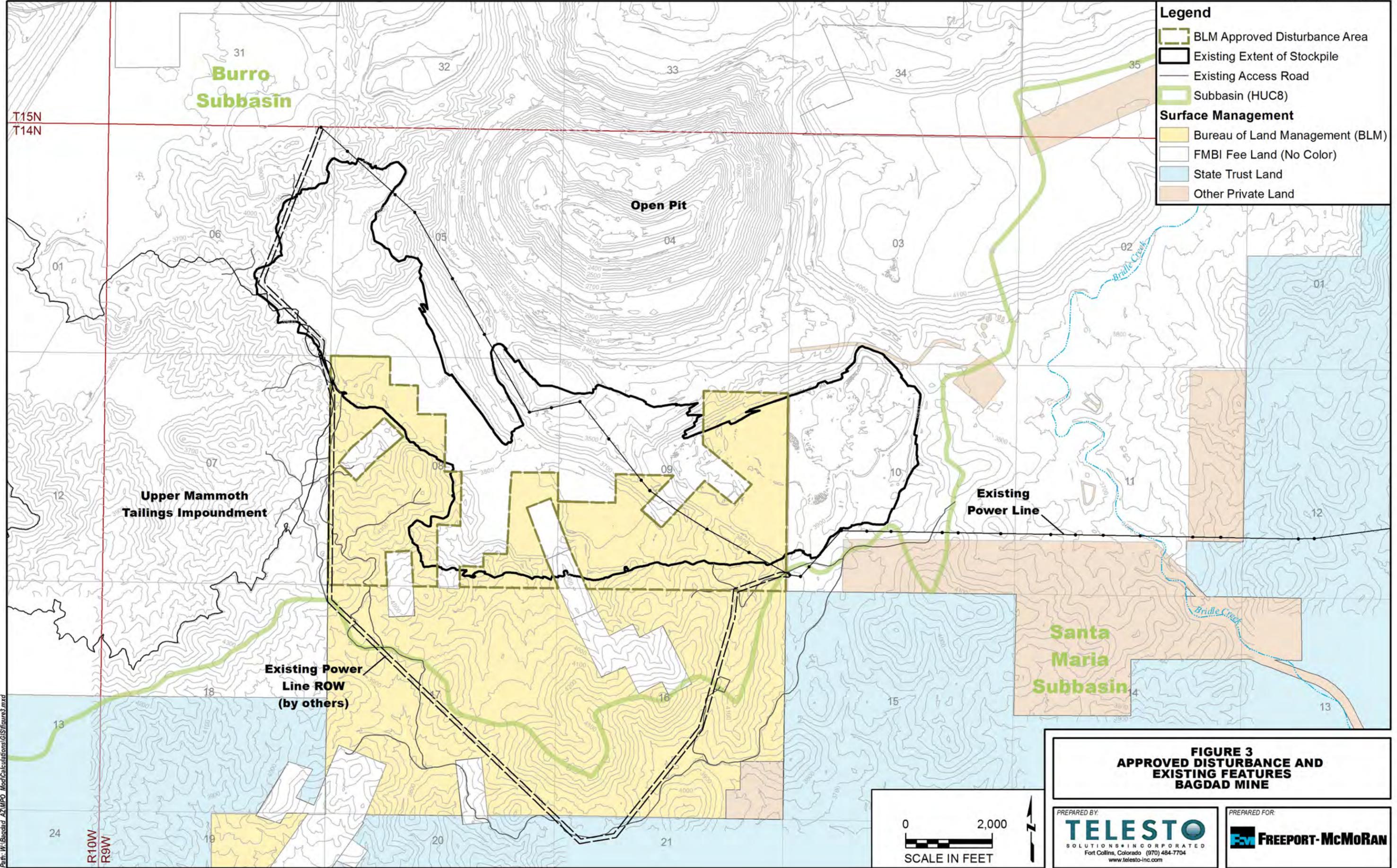
- Bureau of Land Management (BLM)
- FMBI Fee Land (No Color)
- State Trust Land
- Other Private Land

**FIGURE 2
PROJECT VICINITY
BAGDAD MINE**



PREPARED BY:
TELESTO
SOLUTIONS INCORPORATED
Fort Collins, Colorado (970) 484-7704
www.telesto-inc.com

PREPARED FOR:
FM FREEPORT-McMoRAN



Path: W:\Bagdad_AZ\MPO_Mod\Calculations\GIS\Streams3.mxd

T15N
T14N

31
Burro Subbasin

Open Pit

Upper Mammoth Tailings Impoundment

Existing Power Line

Existing Power Line ROW (by others)

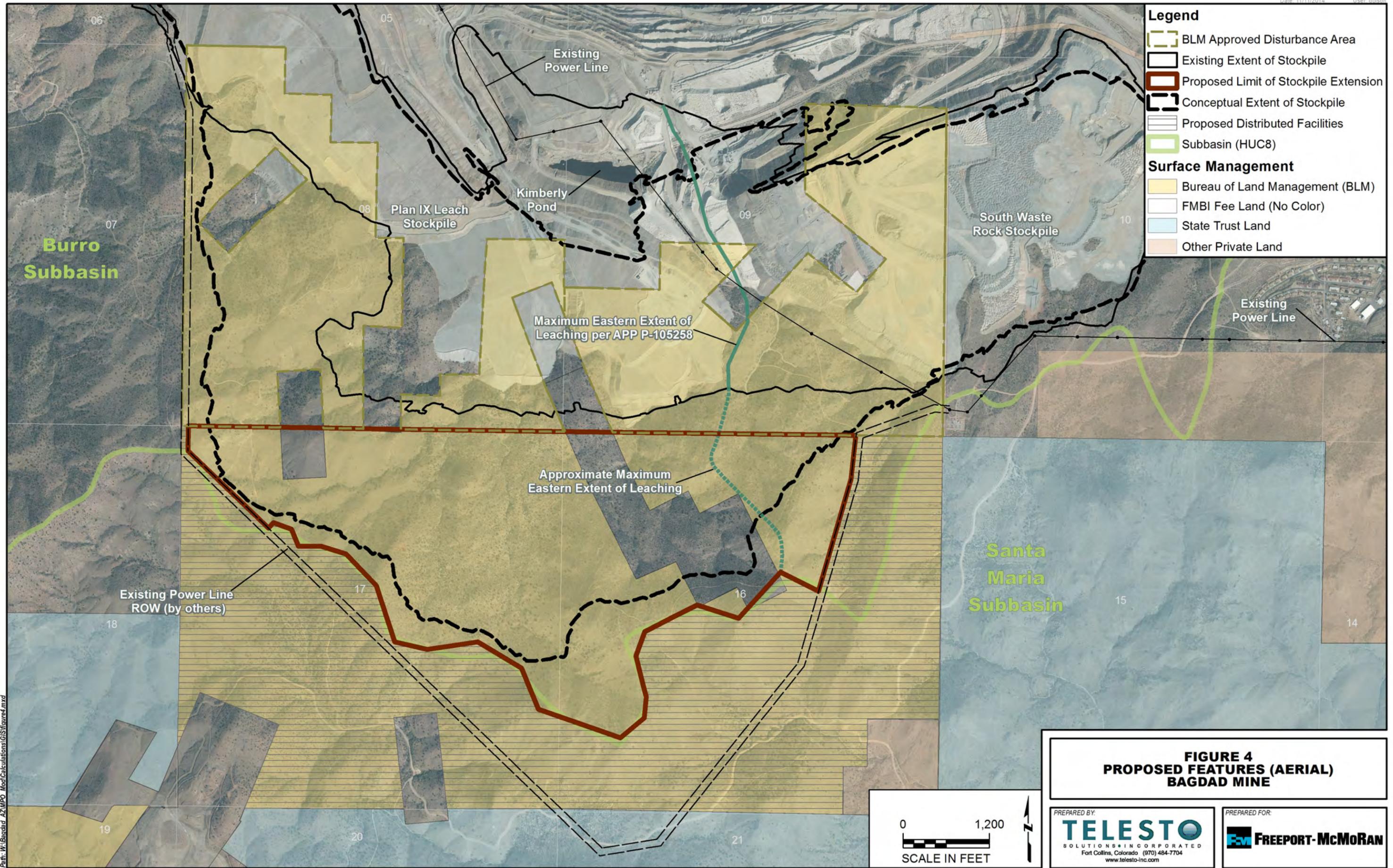
Santa Maria Subbasin

**FIGURE 3
APPROVED DISTURBANCE AND
EXISTING FEATURES
BAGDAD MINE**

0 2,000
SCALE IN FEET

PREPARED BY:
TELESTO
SOLUTIONS INCORPORATED
Fort Collins, Colorado (970) 484-7704
www.telesto-inc.com

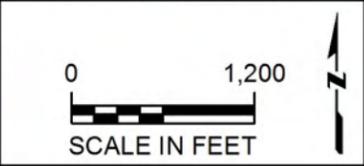
PREPARED FOR:
FREEMPORT-McMORAN

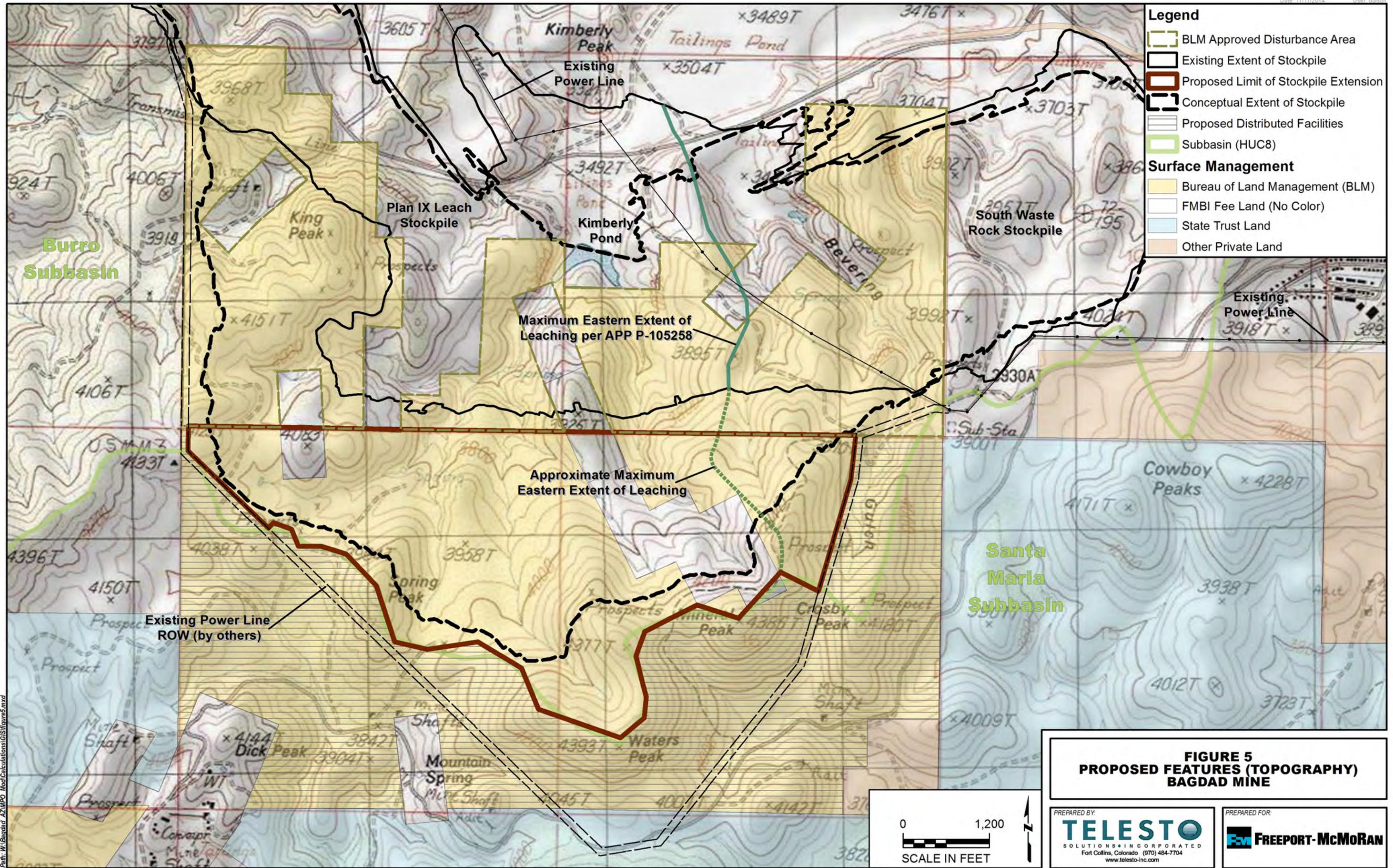


**FIGURE 4
PROPOSED FEATURES (AERIAL)
BAGDAD MINE**

PREPARED BY:
TELESTO
SOLUTIONS INCORPORATED
Fort Collins, Colorado (970) 484-7704
www.telesto-inc.com

PREPARED FOR:
FM FREEPORT-McMoRAN

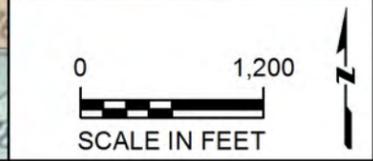




Path: W:\Bagdad_AZ\Map Mod\Calculations\GIS\Drawings.mxd

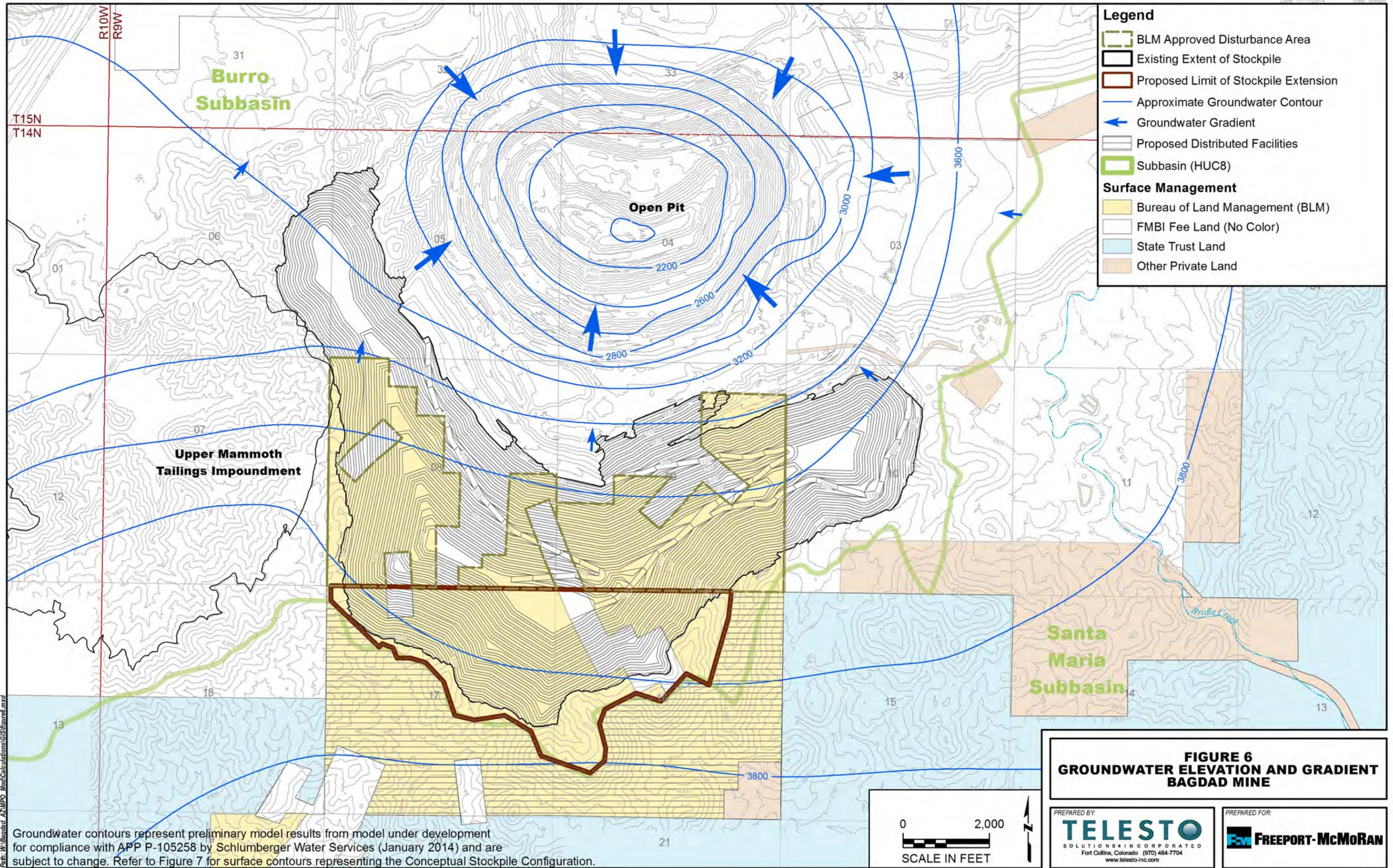
- Legend**
- BLM Approved Disturbance Area
 - Existing Extent of Stockpile
 - Proposed Limit of Stockpile Extension
 - Conceptual Extent of Stockpile
 - Proposed Distributed Facilities
 - Subbasin (HUC8)
- Surface Management**
- Bureau of Land Management (BLM)
 - FMBI Fee Land (No Color)
 - State Trust Land
 - Other Private Land

**FIGURE 5
PROPOSED FEATURES (TOPOGRAPHY)
BAGDAD MINE**



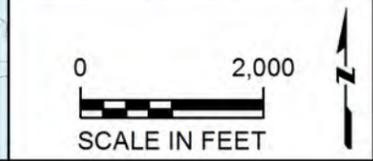
PREPARED BY:
TELESTO
SOLUTIONS INCORPORATED
Fort Collins, Colorado (970) 484-7704
www.telesto-inc.com

PREPARED FOR:
Freeport-McMoRan



Groundwater contours represent preliminary model results from model under development for compliance with APP P-105258 by Schlumberger Water Services (January 2014) and are subject to change. Refer to Figure 7 for surface contours representing the Conceptual Stockpile Configuration.

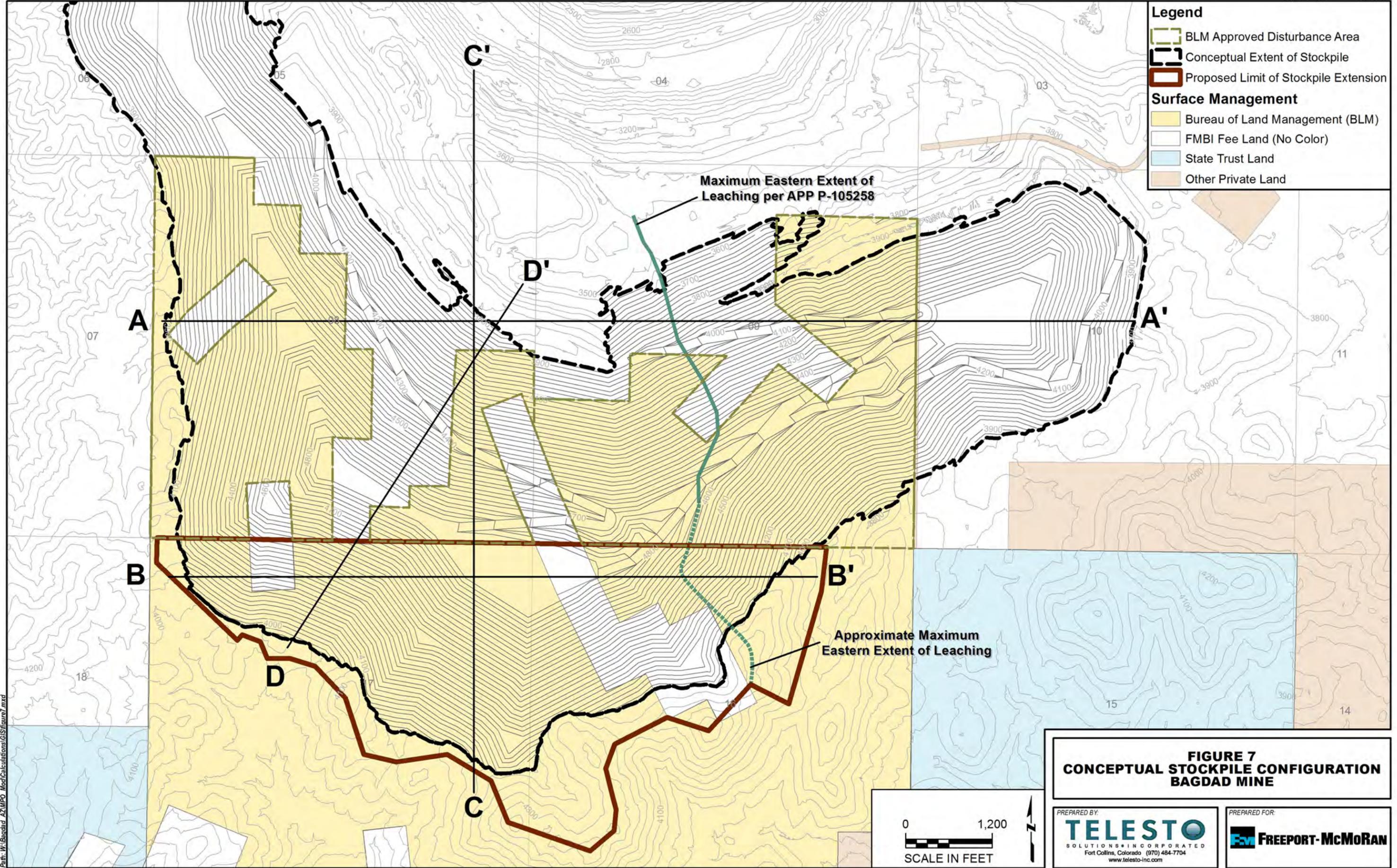
**FIGURE 6
GROUNDWATER ELEVATION AND GRADIENT
BAGDAD MINE**



PREPARED BY:
TELESTO
SOLUTIONS INCORPORATED
Fort Collins, Colorado (970) 484-7704
www.telesto-inc.com

PREPARED FOR:
FREEPORT-McMoRAN

Path: W:\Bagdad_AZ\MPO_Mod\Calculations\GIS\Drawings.mxd



Legend

- BLM Approved Disturbance Area
- Conceptual Extent of Stockpile
- Proposed Limit of Stockpile Extension

Surface Management

- Bureau of Land Management (BLM)
- FMBI Fee Land (No Color)
- State Trust Land
- Other Private Land

Maximum Eastern Extent of Leaching per APP P-105258

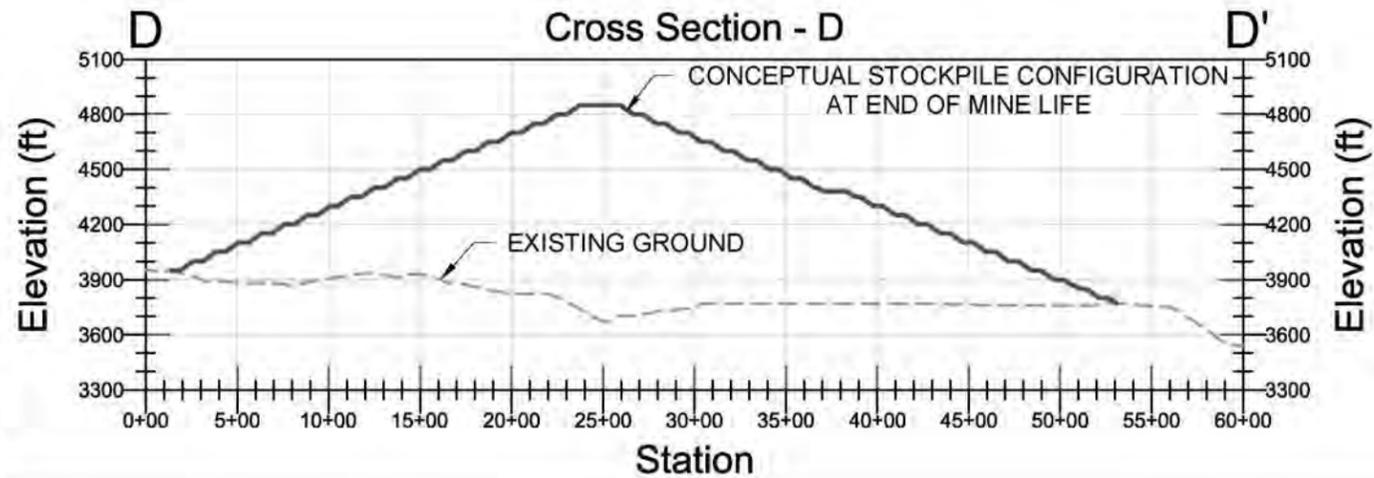
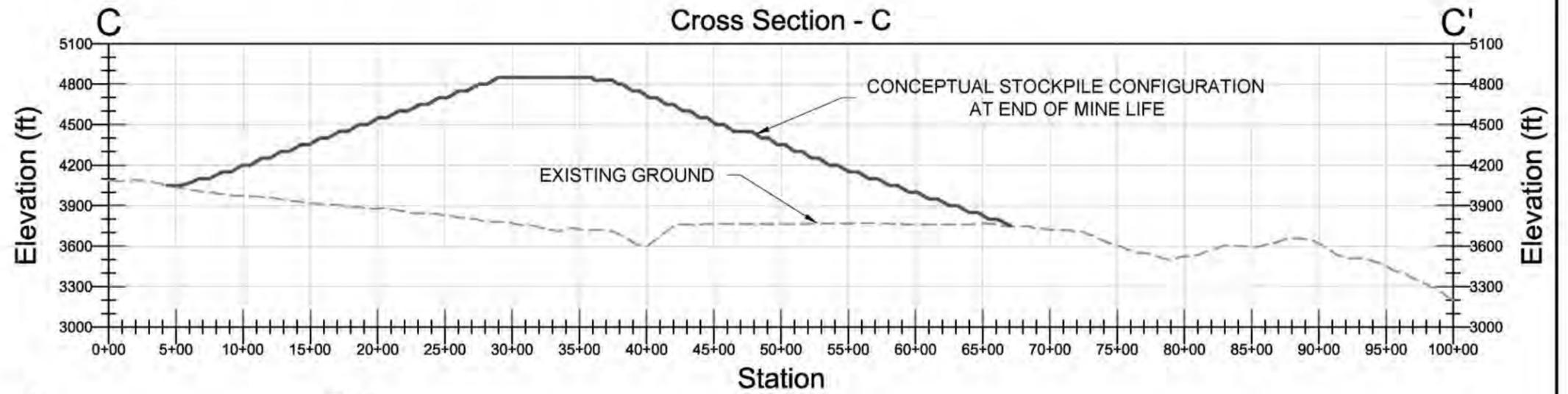
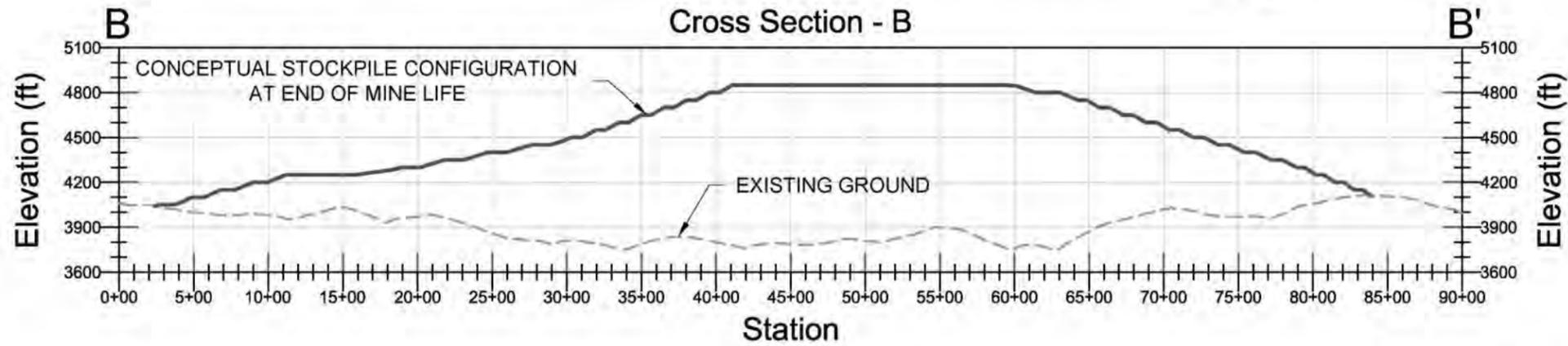
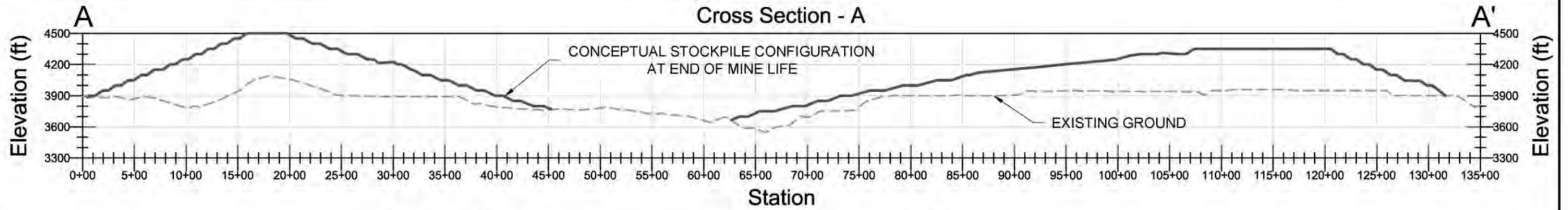
Approximate Maximum Eastern Extent of Leaching

**FIGURE 7
CONCEPTUAL STOCKPILE CONFIGURATION
BAGDAD MINE**

0 1,200
SCALE IN FEET

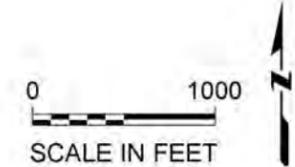
PREPARED BY:
TELESTO
SOLUTIONS INCORPORATED
Fort Collins, Colorado (970) 484-7704
www.telesto-inc.com

PREPARED FOR:
Freeport-McMoRan

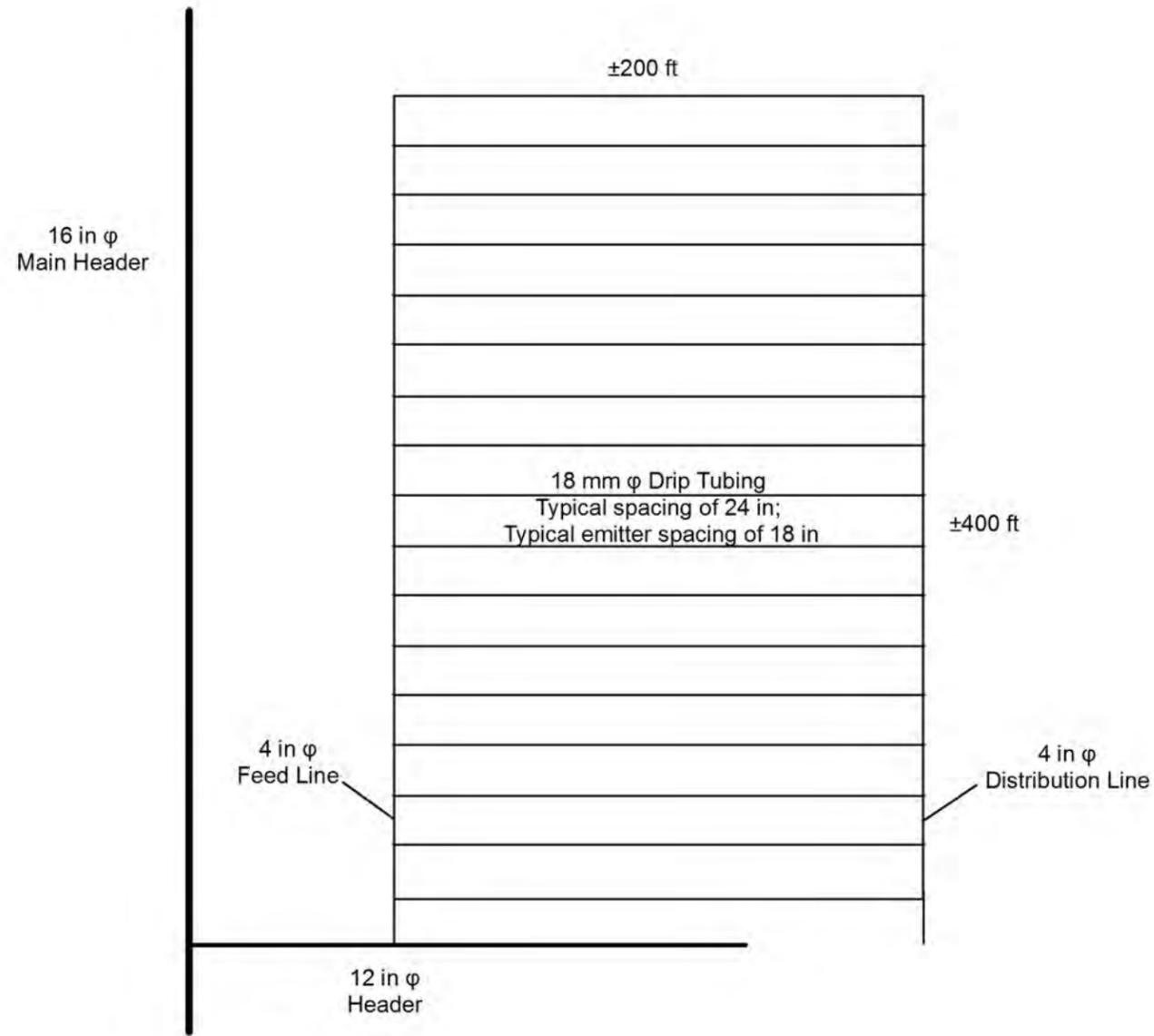


**FIGURE 8
CROSS SECTIONS OF CONCEPTUAL
STOCKPILE CONFIGURATION
BAGDAD MINE**

<p>PREPARED BY:</p> <p>TELESTO</p> <p>SOLUTIONS INCORPORATED Fort Collins, Colorado (970) 484-7704 www.telesto-inc.com</p>	<p>PREPARED FOR:</p> <p>FREEMPORT-McMORAN</p>
---	--



Path: W:\Bagdad_AZ\MPD_Mod\Calculations\GIS\Drawings.mxd



This figure represents the typical installation of raffinate distribution system piping on each lift of the Plan IX Leach portion of the Stockpile. Actual pipe sizes and layout may vary.

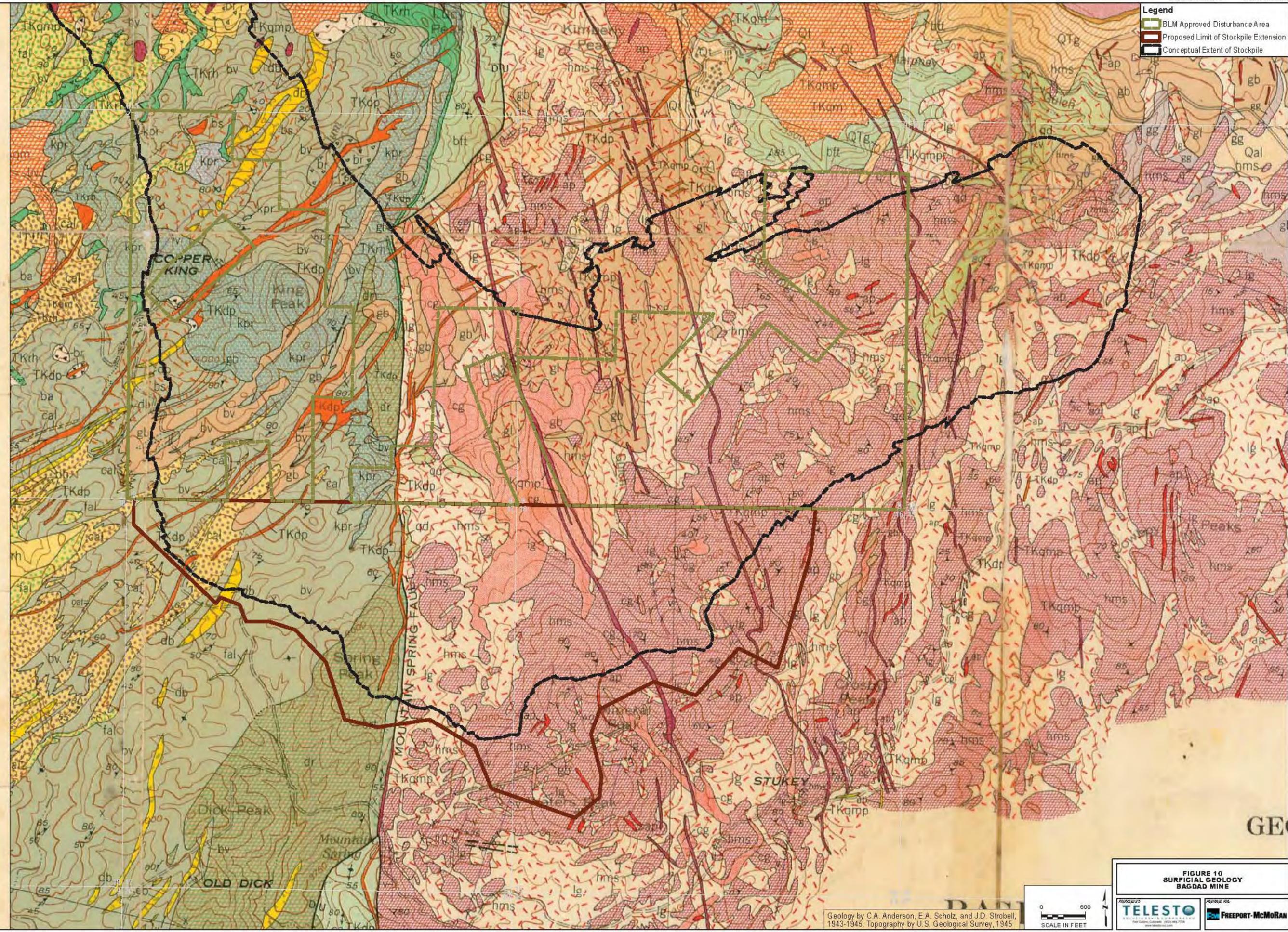
NOT TO SCALE

**FIGURE 9
TYPICAL RAFFINATE DISTRIBUTION
PIPING LAYOUT
BAGDAD MINE**

PREPARED BY:
TELESTO
SOLUTIONS INCORPORATED
Fort Collins, Colorado (970) 484-7704
www.telesto-inc.com

PREPARED FOR:
Freeport-McMoRan

- EXPLANATION**
- QUATERNARY**
- Qal Alluvium
Alluvium, sand, and silt along streams and in basins; includes some alluvial fans
 - Q1 Terrace deposits
Gravel, sand, and silt
 - Q2a, Q2b, Q2c, Q2d, Q2e, Q2f, Q2g, Q2h, Q2i, Q2j, Q2k, Q2l, Q2m, Q2n, Q2o, Q2p, Q2q, Q2r, Q2s, Q2t, Q2u, Q2v, Q2w, Q2x, Q2y, Q2z, Q2aa, Q2ab, Q2ac, Q2ad, Q2ae, Q2af, Q2ag, Q2ah, Q2ai, Q2aj, Q2ak, Q2al, Q2am, Q2an, Q2ao, Q2ap, Q2aq, Q2ar, Q2as, Q2at, Q2au, Q2av, Q2aw, Q2ax, Q2ay, Q2az, Q2ba, Q2bb, Q2bc, Q2bd, Q2be, Q2bf, Q2bg, Q2bh, Q2bi, Q2bj, Q2bk, Q2bl, Q2bm, Q2bn, Q2bo, Q2bp, Q2bq, Q2br, Q2bs, Q2bt, Q2bu, Q2bv, Q2bw, Q2bx, Q2by, Q2bz, Q2ca, Q2cb, Q2cc, Q2cd, Q2ce, Q2cf, Q2cg, Q2ch, Q2ci, Q2cj, Q2ck, Q2cl, Q2cm, Q2cn, Q2co, Q2cp, Q2cq, Q2cr, Q2cs, Q2ct, Q2cu, Q2cv, Q2cw, Q2cx, Q2cy, Q2cz, Q2da, Q2db, Q2dc, Q2dd, Q2de, Q2df, Q2dg, Q2dh, Q2di, Q2dj, Q2dk, Q2dl, Q2dm, Q2dn, Q2do, Q2dp, Q2dq, Q2dr, Q2ds, Q2dt, Q2du, Q2dv, Q2dw, Q2dx, Q2dy, Q2dz, Q2ea, Q2eb, Q2ec, Q2ed, Q2ee, Q2ef, Q2eg, Q2eh, Q2ei, Q2ej, Q2ek, Q2el, Q2em, Q2en, Q2eo, Q2ep, Q2eq, Q2er, Q2es, Q2et, Q2eu, Q2ev, Q2ew, Q2ex, Q2ey, Q2ez, Q2fa, Q2fb, Q2fc, Q2fd, Q2fe, Q2ff, Q2fg, Q2fh, Q2fi, Q2fj, Q2fk, Q2fl, Q2fm, Q2fn, Q2fo, Q2fp, Q2fq, Q2fr, Q2fs, Q2ft, Q2fu, Q2fv, Q2fw, Q2fx, Q2fy, Q2fz, Q2ga, Q2gb, Q2gc, Q2gd, Q2ge, Q2gf, Q2gg, Q2gh, Q2gi, Q2gj, Q2gk, Q2gl, Q2gm, Q2gn, Q2go, Q2gp, Q2gq, Q2gr, Q2gs, Q2gt, Q2gu, Q2gv, Q2gw, Q2gx, Q2gy, Q2gz, Q2ha, Q2hb, Q2hc, Q2hd, Q2he, Q2hf, Q2hg, Q2hh, Q2hi, Q2hj, Q2hk, Q2hl, Q2hm, Q2hn, Q2ho, Q2hp, Q2hq, Q2hr, Q2hs, Q2ht, Q2hu, Q2hv, Q2hw, Q2hx, Q2hy, Q2hz, Q2ia, Q2ib, Q2ic, Q2id, Q2ie, Q2if, Q2ig, Q2ih, Q2ii, Q2ij, Q2ik, Q2il, Q2im, Q2in, Q2io, Q2ip, Q2iq, Q2ir, Q2is, Q2it, Q2iu, Q2iv, Q2iw, Q2ix, Q2iy, Q2iz, Q2ja, Q2jb, Q2jc, Q2jd, Q2je, Q2jf, Q2jg, Q2jh, Q2ji, Q2jj, Q2jk, Q2jl, Q2jm, Q2jn, Q2jo, Q2jp, Q2jq, Q2jr, Q2js, Q2jt, Q2ju, Q2jv, Q2jw, Q2jx, Q2jy, Q2jz, Q2ka, Q2kb, Q2kc, Q2kd, Q2ke, Q2kf, Q2kg, Q2kh, Q2ki, Q2kj, Q2kk, Q2kl, Q2km, Q2kn, Q2ko, Q2kp, Q2kq, Q2kr, Q2ks, Q2kt, Q2ku, Q2kv, Q2kw, Q2kx, Q2ky, Q2kz, Q2la, Q2lb, Q2lc, Q2ld, Q2le, Q2lf, Q2lg, Q2lh, Q2li, Q2lj, Q2lk, Q2ll, Q2lm, Q2ln, Q2lo, Q2lp, Q2lq, Q2lr, Q2ls, Q2lt, Q2lu, Q2lv, Q2lw, Q2lx, Q2ly, Q2lz, Q2ma, Q2mb, Q2mc, Q2md, Q2me, Q2mf, Q2mg, Q2mh, Q2mi, Q2mj, Q2mk, Q2ml, Q2mm, Q2mn, Q2mo, Q2mp, Q2mq, Q2mr, Q2ms, Q2mt, Q2mu, Q2mv, Q2mw, Q2mx, Q2my, Q2mz, Q2na, Q2nb, Q2nc, Q2nd, Q2ne, Q2nf, Q2ng, Q2nh, Q2ni, Q2nj, Q2nk, Q2nl, Q2nm, Q2nn, Q2no, Q2np, Q2nq, Q2nr, Q2ns, Q2nt, Q2nu, Q2nv, Q2nw, Q2nx, Q2ny, Q2nz, Q2oa, Q2ob, Q2oc, Q2od, Q2oe, Q2of, Q2og, Q2oh, Q2oi, Q2oj, Q2ok, Q2ol, Q2om, Q2on, Q2oo, Q2op, Q2oq, Q2or, Q2os, Q2ot, Q2ou, Q2ov, Q2ow, Q2ox, Q2oy, Q2oz, Q2pa, Q2pb, Q2pc, Q2pd, Q2pe, Q2pf, Q2pg, Q2ph, Q2pi, Q2pj, Q2pk, Q2pl, Q2pm, Q2pn, Q2po, Q2pp, Q2pq, Q2pr, Q2ps, Q2pt, Q2pu, Q2pv, Q2pw, Q2px, Q2py, Q2pz, Q2qa, Q2qb, Q2qc, Q2qd, Q2qe, Q2qf, Q2qg, Q2qh, Q2qi, Q2qj, Q2qk, Q2ql, Q2qm, Q2qn, Q2qo, Q2qp, Q2qq, Q2qr, Q2qs, Q2qt, Q2qu, Q2qv, Q2qw, Q2qx, Q2qy, Q2qz, Q2ra, Q2rb, Q2rc, Q2rd, Q2re, Q2rf, Q2rg, Q2rh, Q2ri, Q2rj, Q2rk, Q2rl, Q2rm, Q2rn, Q2ro, Q2rp, Q2rq, Q2rr, Q2rs, Q2rt, Q2ru, Q2rv, Q2rw, Q2rx, Q2ry, Q2rz, Q2sa, Q2sb, Q2sc, Q2sd, Q2se, Q2sf, Q2sg, Q2sh, Q2si, Q2sj, Q2sk, Q2sl, Q2sm, Q2sn, Q2so, Q2sp, Q2sq, Q2sr, Q2ss, Q2st, Q2su, Q2sv, Q2sw, Q2sx, Q2sy, Q2sz, Q2ta, Q2tb, Q2tc, Q2td, Q2te, Q2tf, Q2tg, Q2th, Q2ti, Q2tj, Q2tk, Q2tl, Q2tm, Q2tn, Q2to, Q2tp, Q2tq, Q2tr, Q2ts, Q2tt, Q2tu, Q2tv, Q2tw, Q2tx, Q2ty, Q2tz, Q2ua, Q2ub, Q2uc, Q2ud, Q2ue, Q2uf, Q2ug, Q2uh, Q2ui, Q2uj, Q2uk, Q2ul, Q2um, Q2un, Q2uo, Q2up, Q2uq, Q2ur, Q2us, Q2ut, Q2uu, Q2uv, Q2uw, Q2ux, Q2uy, Q2uz, Q2va, Q2vb, Q2vc, Q2vd, Q2ve, Q2vf, Q2vg, Q2vh, Q2vi, Q2vj, Q2vk, Q2vl, Q2vm, Q2vn, Q2vo, Q2vp, Q2vq, Q2vr, Q2vs, Q2vt, Q2vu, Q2vv, Q2vw, Q2vx, Q2vy, Q2vz, Q2wa, Q2wb, Q2wc, Q2wd, Q2we, Q2wf, Q2wg, Q2wh, Q2wi, Q2wj, Q2wk, Q2wl, Q2wm, Q2wn, Q2wo, Q2wp, Q2wq, Q2wr, Q2ws, Q2wt, Q2wu, Q2wv, Q2ww, Q2wx, Q2wy, Q2wz, Q2xa, Q2xb, Q2xc, Q2xd, Q2xe, Q2xf, Q2xg, Q2xh, Q2xi, Q2xj, Q2xk, Q2xl, Q2xm, Q2xn, Q2xo, Q2xp, Q2xq, Q2xr, Q2xs, Q2xt, Q2xu, Q2xv, Q2xw, Q2xx, Q2xy, Q2xz, Q2ya, Q2yb, Q2yc, Q2yd, Q2ye, Q2yf, Q2yg, Q2yh, Q2yi, Q2yj, Q2yk, Q2yl, Q2ym, Q2yn, Q2yo, Q2yp, Q2yq, Q2yr, Q2ys, Q2yt, Q2yu, Q2yv, Q2yw, Q2yx, Q2yy, Q2yz, Q2za, Q2zb, Q2zc, Q2zd, Q2ze, Q2zf, Q2zg, Q2zh, Q2zi, Q2zj, Q2zk, Q2zl, Q2zm, Q2zn, Q2zo, Q2zp, Q2zq, Q2zr, Q2zs, Q2zt, Q2zu, Q2zv, Q2zw, Q2zx, Q2zy, Q2zz
- TERTIARY AND QUATERNARY**
- TKam, TKmp, TKdp, TKrn, TKrh, TKkm, TKkp, TKmp, TKdp, TKrn, TKrh, TKkm, TKkp
- CRETACEOUS OR TERTIARY**
- TKam, TKmp, TKdp, TKrn, TKrh, TKkm, TKkp
- PRE-CAMBRIAN**
- TKam, TKmp, TKdp, TKrn, TKrh, TKkm, TKkp



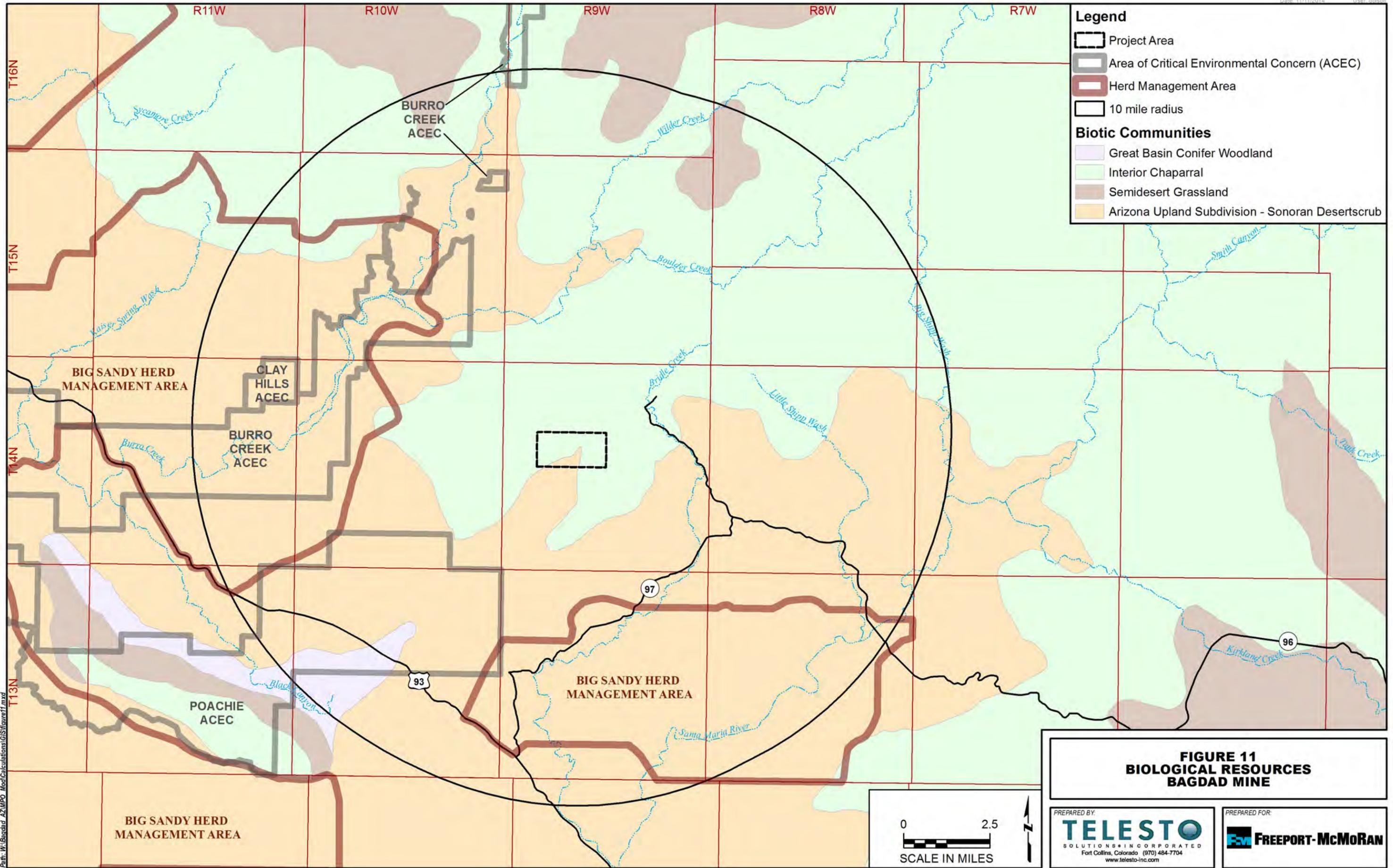
- Legend**
- BLM Approved Disturbance Area
 - Proposed Limit of Stockpile Extension
 - Conceptual Extent of Stockpile

FIGURE 10
SURFICIAL GEOLOGY
BAGDAD MINE

Geology by C.A. Anderson, E.A. Scholz, and J.D. Strobell,
1943-1945. Topography by U.S. Geological Survey, 1945.

0 600
SCALE IN FEET

TELESTO
FREEPORT-McMORAN



Legend

- Project Area
- Area of Critical Environmental Concern (ACEC)
- Herd Management Area
- 10 mile radius

Biotic Communities

- Great Basin Conifer Woodland
- Interior Chaparral
- Semidesert Grassland
- Arizona Upland Subdivision - Sonoran Desertscrub

**FIGURE 11
BIOLOGICAL RESOURCES
BAGDAD MINE**

0 2.5
SCALE IN MILES

PREPARED BY:
TELESTO
SOLUTIONS INCORPORATED
Fort Collins, Colorado (970) 484-7704
www.telesto-inc.com

PREPARED FOR:
Freeport-McMoRan