



**SOIL AND GEOLOGIC GRADING REPORT
ENGINEERED GRADING
OF
TRACTS 17571 AND 17626
CHINO, CA**

for

Lewis Operating Corp
1156 N Mountain Avenue
PO Box 670
Upland, CA 91785-0670

April 20, 2007

06-238-01



April 20, 2007

Chino Development Corp
c/o Lewis Operating Corp
1156 N Mountain Avenue
PO Box 670
Upland, CA 91785-0670

Subject: Soil and Geologic Grading Report
Tracts 17571 and 17626 Lots 1-42
Southwest of Bickmore and Rincon Meadows Avenues
Chino, CA

Gentlemen:

In accordance with your request, a soil and geologic grading report has been completed for the subject project. The purpose of this report is to document our observations and testing performed during rough grading of the subject tracts.

The accompanying report presents a description of our observations, the results of our soil testing, as well as our conclusions, which are a statement of professional opinion only. The report does not constitute a guarantee or warranty of any type, and none should be inferred.

We appreciate this opportunity to be of continued service to you. If you have any questions regarding this report, please do not hesitate to contact us at your convenience.

Respectfully submitted,

RMA Group

Report recreated on 4/20/07
Original report signed by Ed Lyon

Ed Lyon, P.E.
President
GE 2362

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1.00 INTRODUCTION

1.01 Purpose

The purpose of the grading operation was to prepare rough graded building pads and rough street grades in Tract 17626 for a proposed residential development and to mass contour grade Tract 17571. The proposed residences will consist of typical UBC type V, one and/or two story wood-frame structures.

1.02 Workslope

During the period indicated above, representatives of our firm performed the following professional services under the direction of the undersigned geotechnical engineer.

- Observed clearing and grubbing operations on a periodic basis.
- Observed and approved the preparation of existing ground.
- Observed the placement, processing and compaction of fills.
- Performed field compaction tests of the processed existing ground and fills.
- Performed laboratory testing on soils as described in this report.
- Prepared this report.

In addition, geologic staff observed removals and over-excavation on a part time basis under the direction of the undersigned geotechnical engineer. Removals were observed on a full time basis by the geotechnical engineers field technician and some removals were observed by the field technician rather than by a geologist.

1.03 Project Grading Information

Grading was performed in accordance with a grading plan prepared by L.D. King and geotechnical engineering reports prepared by RMA Group (2003).

The following firms were involved with grading of the subject tract:

Owner / Developer	– Lewis Operating Corp
Permittee	– Lewis Operating Corp
Grading Contractor	– Titan Coburn
Design Civil Engineer	– L.D. King
Geotechnical Engineer	– RMA Group
Engineering Geologist	– RMA Group

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1.04 Sequence of Grading

Grading of tracts 17571 and 17626 occurred during two time periods:

- The first phase of grading occurred in the northern portion of Tract 17571, labeled as Lots 2, 5, 6, 8 and A, and all of Tract 17626, were mass graded from August 31, 2004 through August 2, 2005. Elevations at the end of this phase of grading indicate that Tract 17571 north roughly of Channel View Street was left at elevations ranging from 576 to 588 about 1 to 3 feet above proposed finish grade as shown on the grading plan for the second phase of grading. Tract 16726 was left about 2 feet to 3 feet above proposed finish grades as shown on the grading plan for the second phase of grading. Field density tests from this phase of grading are reported in Appendix A. Density tests taken at elevations above the proposed finish grade from second phase of the grading are not reported.
- The second phase of grading occurred in the southwestern portion of Tract 17571 and Tract 17626. The southwestern portion of Tract 17571 was graded in an area roughly bounded by Meadowhouse Avenue on the east, Channel View Street on the north, Pine Avenue on the south and by the tract boundary to the west, labeled Lots 1, 9 and the southern half of Lot 8. This phase of grading began on January 26, 2007 and continued through April 16, 2007. During this phase of grading Lots 1, 9 and the southern half of Lot 8 of Tract 17571 was mass graded to the elevations shown on the current referenced grading plan. The remaining portions of Tract 17571 roughly north of Channel View Street that was previously graded in the first phase of grading was cut to grade as shown on the current grading plan.

During the second phase of grading within Tract 17626, the tract was cut to finish pad grades as shown on the current referenced grading plan. Tract 17626 contains into 64 residential lots.

Field density tests from this phase of grading are reported in Appendix B.

2.00 GEOLOGIC CONDITIONS

2.01 Geologic Units

The geologic units observed on site during grading were essentially the same as those encountered during the preliminary geotechnical investigation. The natural soils exposed consisted of alluvium, consisting of silty sands to sandy silts with clay. No bedrock was encountered during site grading. Consequently, an as-graded geologic map for the site has not been prepared. No fissures, shears or vertical sand lenses were exposed that might suggest the presence of faulting, landsliding, land subsidence or paleoliquefaction.

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2.02 Surface and Ground Water

No surface water or ground water was encountered during grading. The preliminary geotechnical investigation reports (RMA, 2000, 2003a, b, c, d) indicates that there were artesian water conditions in the area in which the site is located in the early 1900's. According to California Department of Water Resources (1970), ground water remained near the surface in 1933. Since that time, there has been a further decline in the depth to ground water. In 1960, the depth to ground water was on the order of 45 to 55 feet (Fife and others, 1976). According to Carson and Matti (1985), the minimum depth to ground water beneath the site from 1973 to 1979 was about 75 feet. Groundwater contour mapping prepared by Chino Basin Watermaster (2001) shows the depth to groundwater beneath the site in 1997 being approximately 50 to 75 feet and 45 to 70 feet in 2000. Also, during the preliminary geotechnical investigation ground water was encountered in 4 borings drilled in the southern portion of Tract 17571 at depths ranging from 21 to 31 feet.

3.00 GRADING OPERATIONS

3.01 Clearing

Our representative observed clearing and grubbing operations on a continuous basis. The areas to be graded were cleared of seasonal vegetation, trash, and debris. A search was conducted for any cavities that may have been created during the clearing operations. Any cavities encountered during this search were filled, and compacted during the original ground preparation phase of grading.

3.02 Original Ground Preparation

Prior to placing of fill the original ground was prepared as described below. Areas thus prepared are considered suitable for the support and placement of fill.

All surficial deposits including topsoil, loose alluvium, and non-engineered fill were removed to a minimum depth of 6 feet to expose competent earth material. The exposed earth material was scarified or blade mixed to a minimum depth of 6 inches within the southwestern portion of Tract 17571. The scarified zone was then moistened to near optimum moisture and thoroughly compacted by rolling with loaded scrapers and loaded water pulls.

Tract 17626 was cut to pad grade and scarified or blade mixed to a minimum depth of 6 inches. The scarified zone was then moistened to near optimum moisture and thoroughly compacted by rolling with loaded scrapers and loaded water pulls.

The original ground preparation, in all areas that were processed, was tested for the required compaction and approved prior to the placement of any fill.

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3.03 Fill Materials

Fill materials consisted of onsite native soils. The Unified Soils Classification System classifies these materials as sandy silts to silty sands with clay, or combinations of these soil types, and are essentially the same materials as those encountered in the referenced geotechnical engineering report.

Expansion index tests indicate these soils have an expansion classification of very low. Reinforcement of foundations and concrete slabs on grade will be required, as indicated in the Recommendations portion of this report.

Rocks (boulders) with a maximum dimension greater than 12 inches were not encountered during grading.

3.04 Fill Placement

Fills were placed in relative level thin lifts, approximately 8 to 12 inches in thickness, with self-propelled scrapers. After being placed, the fill material was moistened with water, and blade mixed until each lift of fill material was near optimum moisture content. Each lift was compacted by rolling with loaded scrapers and loaded water pulls prior to placement of subsequent lifts.

3.05 Organic Material

Manure present at the surface was stripped and hauled from the site prior to rough grading operations. No manure or manure-impacted soils were placed as fill within Tract 17571 and 17626.

In portions of the site, the soils encountered underlying the upper manure impacted materials contained naturally occurring calcium carbonate stringers and nodules. Calcium carbonate is a carbon based mineral and therefore yields test results that identify it as organic material when tested in accordance with ASTM D2974. These calcium carbonate bearing soils contained no other visible organic materials (manure or plant material), but tested at greater than 2% total organic content in some samples due to the presence of the calcium carbonate.

The stringers and nodules were most likely formed as a result of historical high groundwater in the area and the leaching of naturally occurring minerals present within the alluvial soils. The calcium carbonate stringers and nodules present in the soils are independent of past dairy use, as evidenced by the presence of these soils on nearby sites with no prior dairy use. The calcium carbonate stringers and nodules are not biodegradable and/or methane generating.

The soils containing calcium carbonate were placed as engineered fills within the building pads at the site. No additional organic material, manure, or manure-impacted soils were mixed or blended with those soils.

Therefore, based on our observations and testing during rough grading and the methods utilized during rough grading as described above it is our professional opinion that the soils placed within

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the building pads comply with the intent of the City of Chino's guidelines for the treatment of organic materials on sites with past dairy use.

4.00 TESTING PROCEDURES

4.01 Field Testing

In place density tests (compaction tests) were performed in the field by our representative by the sand volume method (ASTM D1556). Compaction tests were taken at frequencies that are generally accepted as the standard practice of geotechnical engineers practicing in the area.

Compaction test results are tabulated in Appendix A which is attached to and made a part of this report. Compaction test locations are plotted on Figures 2 and 3.

4.02 Laboratory Testing

The maximum density - optimum moisture relationship was established in the laboratory by the ASTM D1557 test method. The maximum density - optimum moisture relationship was determined for each major soil type encountered.

Expansion index tests were performed in accordance to the standard test methods of UBC Standard 29-2 on each of the major soil types encountered.

Soluble sulfate tests were performed on representative samples of each major soil type encountered. Soluble sulfate was extracted from soil with a solution of calcium phosphate (CaHPO_4). The extract was tested for its soluble sulfate concentration in a spectrophotometer.

Laboratory test results are summarized in Appendix B.

5.00 RECOMMENDATIONS

5.01 Slab and Foundation Design

We recommend that the foundations for the subject project be designed for vertical movement associated with liquefaction.

The effects due to liquefaction may be mitigated through the design of post-tensioned foundations and floor systems. If the recommendations in the section on grading are followed and footings are established in compacted fill, footings may be designed using the following allowable soil bearing values:

The post tensioned concrete slabs should be relatively rigid and have a uniform minimum thickness of 5 inches and a continuous stiffening beam around the entire perimeter of the foundation with a

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minimum total depth (including slab thickness) of 24 inches. Post tensioned foundations should be designed to resist total and differential settlement on the order of 2.0 inches and 1.0 inches respectively.

5.02 Miscellaneous Concrete Flatwork

Miscellaneous flatwork, driveways, and walkways may be designed with a minimum thickness of 4.0 inches. Miscellaneous flatwork and driveways, should be reinforced with # 4 bars, 18 inches on center, each direction at the mid-height of the slab. Control joints should be constructed to create squares or rectangles with a maximum spacing of 15 feet on large slab areas.

Walkways should be separated from foundations with a thick expansion joint filler and reinforced with a minimum of 6x6- 10/10 welded wire mesh placed at mid height in the slab. Control joints should be constructed into walkways at a maximum of 5 feet spacing.

The sub grade soils beneath all miscellaneous concrete flatwork, driveways, and walkways should be compacted to a minimum of 90% relative compaction for a minimum depth of 12 inches. The geotechnical engineer should monitor the compaction of the sub grade soils and perform testing to verify that proper compaction has been obtained.

5.03 Footing Excavation and Slab Preparations

All footing excavations should be observed by the geotechnical consultant to verify that they have been excavated into competent soils. The foundation excavations should be observed prior to the placement of forms, reinforcement steel, or concrete. These excavations should be evenly trimmed and level. Prior to concrete placement, any loose or soft soils should be removed. Excavated soils should not be placed on slab or footing areas unless properly compacted.

Prior to the placement of the moisture barrier and sand, the sub grade soils underlying the slab should be observed by the geotechnical consultant to verify that all under slab utility trenches have been properly backfilled and compacted, that no loose or soft soils are present, and that the slab sub grade has been properly compacted to a minimum of 90% relative compaction within the upper 12 inches.

5.04 Cement Type

Soluble sulfate tests performed during the preliminary investigation indicate that concrete at the subject site will have a negligible exposure to water soluble sulfate in the soil. Our recommendations for concrete that will be in contact with soils at the subject tract are as follows.

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RECOMMENDATIONS FOR CONCRETE EXPOSED TO SULFATE CONTAINING SOILS

Sulfate exposure	Water soluble sulfate(SO ₄) in soil (% by wgt)	Sulfate (SO ₄) in water (ppm)	Cement type	Maximum water-cement ratio by weight	Minimum compressive strength (psi)
Negligible	0.00 - 0.10	0-150	--	--	--
Moderate	0.10 - 0.20	150-1,500	II, IP(MS), IS(MS)	0.50	4,000
Severe	0.20 - 2.00	1,500-10,000	V	0.45	4,500
Very Severe	Over 2.00	Over 10,000	V plus pozzolan	0.45	4,500

5.05 Utility Trench Backfill

The on-site soils will not be suitable for use as pipe bedding for buried utilities. All pipes should be bedded in a sand, gravel or crushed aggregate imported material complying with the requirements of the Standard Specifications for Public Works Construction Section 306-1.2.1. Crushed rock products that do not contain appreciable fines should not be utilized as pipe bedding and/or backfill. Bedding materials should be densified to at least 90% relative compaction (ASTM D1557) by mechanical methods. The geotechnical consultant should review and approve of proposed bedding materials prior to use.

Cal/OSHA construction safety orders should be observed during all underground work.

All utility trench backfill within street right of way, utility easements, under or adjacent to sidewalks, driveways, or building pads should be observed and tested by the geotechnical consultant to verify proper compaction. Trenches excavated adjacent to foundations should not extend within the footing influence zone defined as the area within a line projected at a 1:1 (horizontal to vertical) drawn from the bottom edge of the footing. Trenches crossing perpendicular to foundations should be excavated and backfilled prior to the construction of the foundations. The excavations should be backfilled in the presence of the geotechnical engineer and tested to verify adequate compaction beneath the proposed footing.

5.06 Post-Grading Geotechnical Observation and Testing

The geotechnical engineer should be contacted to provide additional observation and testing during the following post-grading construction activities:

- During all trenching and backfilling operations of buried improvements and utilities within the street right of way, utility easements, and lots to verify proper backfill and compaction of the utility trenches.
- After excavation and prior to placement of reinforcing steel or concrete within footing

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trenches to verify that footings are properly founded in competent materials.

- During fine or precise grading involving the placement of any fills underlying driveways, sidewalks, walkways, or other miscellaneous concrete flatwork to verify proper placement, mixing and compaction of fills.
- When any unusual conditions are encountered during construction.

6.00 CONCLUSIONS

We conclude that to the best of our knowledge, the grading performed during the periods of August 31, 2004 through August 2, 2005 and January 26, 2007 through April 16, 2007 at the subject site has been performed in substantial compliance to the recommendations of the referenced soils engineering report and the requirements of Chapters 18 and 33 of the Uniform Building Code, 1997 Edition.

7.00 LIMITATIONS

This report contains a statement of professional opinion based on our representatives observations during rough grading, the results of tests performed during rough grading, a review of the referenced soils engineering reports, and a geotechnical evaluation of the compiled data. Our tests and observations were made in accordance with commonly accepted procedures consistent with applicable standards of practice. This report does not constitute a guarantee or warranty of any type and none should be inferred.

APPENDIX A

**COMPACTION
TEST RESULTS**

AUGUST 31, 2004 THROUGH OCTOBER 14, 2004

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MAXIMUM DENSITY - OPTIMUM MOISTURE RELATIONSHIPS

Soil Type	Test Method ¹	Description	Optimum Moisture (%)	Maximum Density (pcf)
1	M	Brown Silty Sand	14.0	114.0
2	M	Brown Silty Sand	17.5	112.0
3	M	Brown Silty Sand	16.5	111.5
4	M	Brown Silty Sand	14.5	117.0
5	M	Brown Silty Sand	18.0	110.5
6	M	Brown Silty Sand	19.0	99.5
7	M	Brown Silty Sand	18.0	110.5
8	M	Base	7.5	135.5
9	M	Brown Silt	14.0	120.0
10	M	Brown Silt	14.5	115.5
11	M	Brown Silt	14.5	115.5
12	M	Brown Silty Sand	15.0	116.5

¹Test Method

M - ASTM D1557 (Maximum Density Optimum Moisture Relationship)



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IN-PLACE DENSITIES

Test No.	Date	Item ² Tested	Location	Test ³ Method	Test Elev. (ft)	F.G. Elev. (ft)	Moisture (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type
1	8/31/2004	OG	N 1807790 E 6670058	N	566.9	577.5	18.2	101.4	89	1
2	8/31/2004	OG	N 1807693 E 6670008	N	567.0	576.0	22.6	99.6	87	1
3	8/31/2004	OG	N 1807588 E 6669990	N	566.9	575.3	18.0	100.5	88	1
4	8/31/2004	SZ	N 1807501 E 6670002	N	567.0	574.6	16.7	104.8	92	1
5	8/31/2004	SZ	N 1807610 E 6670031	N	567.1	575.9	18.4	104.6	92	1
6	8/31/2004	SZ	N 1807730 E 6670074	N	566.9	576.9	19.0	103.8	91	1
7	8/31/2004	FL	N 1807819 E 6669989	N	568.8	577.4	13.4	105.7	93	1
8	8/31/2004	FL	N 1807705 E 6669963	N	568.9	576.4	13.2	104.7	92	1
9	8/31/2004	FL	N 1807579 E 6670056	N	568.8	575.5	18.0	106.9	94	1
10	9/1/2004	OG	N 1807795 E 6670104	N	566.8	577.8	17.8	101.3	89	1
11	9/1/2004	OG	N 1807696 E 6670135	N	567.0	576.9	20.9	98.1	86	1
12	9/1/2004	OG	N 1807595 E 6670188	N	567.1	576.1	22.4	97.6	86	1
13	9/7/2004	OG	N 1807805 E 6670313	N	568.2	578.5	20.9	99.4	87	1
14	9/7/2004	OG	N 1807707 E 6670294	N	568.4	577.5	20.6	100.3	88	1
15	9/7/2004	OG	N 1807559 E 6670239	N	568.2	575.9	20.7	100.6	88	1
16	9/7/2004	OG	N 1807759 E 6670254	N	569.0	577.8	15.6	103.7	91	1
17	9/7/2004	OG	N 1807618 E 6670320	N	569.0	576.8	13.4	105.1	92	1
18	9/7/2004	FL	N 1807762 E 6669993	N	570.6	576.9	13.1	106.5	93	1
19	9/7/2004	FL	N 1807557 E 6670062	N	570.8	575.2	13.3	105.6	93	1
20	9/7/2004	FL	N 1807815 E 6670187	N	567.0	578.1	13.5	103.9	91	1
21	9/7/2004	FL	N 1807815 E 6670131	N	567.3	576.6	14.7	103.2	91	1
22	9/7/2004	FL	N 1807581 E 6670093	N	567.2	575.5	14.3	104.0	91	1
23	9/8/2004	OG	N 1807779 E 6670369	N	569.2	578.5	17.8	98.0	86	1
24	9/8/2004	OG	N 1807665 E 6670412	N	569.2	577.5	22.4	98.0	86	1
25	9/8/2004	OG	N 1807568 E 6670467	N	569.4	576.1	18.5	98.6	86	1
26	9/9/2004	FL	N 1807750 E 6670448	N	569.6	578.5	12.4	104.0	91	1
27	9/9/2004	FL	N 1807569 E 6670364	N	569.7	576.8	12.8	104.8	92	1
28	9/9/2004	FL	N 1807664 E 6669992	N	572.5	576.8	17.7	103.1	90	1
29	9/9/2004	FL	N 1807755 E 6670057	N	572.6	577.1	16.9	104.2	91	1
30	9/9/2004	FL	N 1807827 E 6670104	N	568.7	577.9	17.3	106.0	93	1
31	9/9/2004	FL	N 1807714 E 6670154	N	568.9	577.1	14.7	107.5	94	1
32	9/9/2004	FL	N 1807567 E 6670205	N	568.9	575.9	14.5	105.0	92	1
33	9/9/2004	FL	N 1807660 E 6670263	N	570.8	576.9	17.2	109.5	96	1
34	9/9/2004	FL	N 1807776 E 6670311	N	570.7	578.2	14.9	107.6	94	1
35	9/9/2004	SZ	N 1807556 E 6670363	N	569.7	578.1	16.0	103.6	91	1
36	9/9/2004	SZ	N 1807726 E 6670412	N	569.7	576.2	15.1	104.7	92	1
37	9/9/2004	FL	N 1807657 E 6670057	N	574.2	576.2	15.8	104.0	91	1
38	9/9/2004	FL	N 1807835 E 6669956	N	573.7	577.5	15.0	104.6	92	1
39	9/9/2004	FL	N 1807794 E 6670189	N	570.2	577.9	13.4	104.0	91	1
40	9/9/2004	FL	N 1807567 E 6670010	N	572.7	575.1	16.5	103.1	90	1



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IN-PLACE DENSITIES

Test No.	Date	Item ² Tested Location	Test ³ Method	Test Elev. (ft)	F.G. Elev. (ft)	Moisture (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type
41	9/9/2004	FL N 1807688 E 6670086	N	576.0	576.6	16.7	104.8	92	1
42	9/9/2004	FL N 1807856 E 6670032	N	575.6	577.8	18.4	104.6	92	1
43	9/9/2004	FL N 1807656 E 6669967	N	575.8	575.9	19.0	103.8	91	1
44	9/9/2004	FL N 1807805 E 6670047	N	577.0	577.5	19.9	103.3	91	1
45	9/10/2004	FL N 1807593 E 6670136	N	569.0	575.2	14.5	103.9	91	1
46	9/10/2004	FL N 1807606 E 6670111	N	569.0	575.9	14.4	104.9	92	1
47	9/10/2004	FL N 1807655 E 6670183	N	569.2	576.8	14.6	103.3	91	1
48	9/10/2004	FL N 1807734 E 6670119	N	570.8	577.1	14.4	103.6	91	1
49	9/10/2004	FL N 1807833 E 6670157	N	569.9	578.2	16.0	102.2	90	1
50	9/10/2004	OG N 1807648 E 6670523	N	571.0	578.0	20.5	101.8	89	1
51	9/10/2004	OG N 1807754 E 6670592	N	572.1	578.9	22.9	99.2	87	1
52	9/10/2004	OG N 1807812 E 6670536	N	572.8	579.3	21.3	99.4	87	1
53	9/10/2004	SZ N 1807609 E 6670501	N	571.9	577.4	14.0	103.2	91	1
54	9/10/2004	SZ N 1807721 E 6670574	N	572.2	578.6	18.3	102.4	90	1
55	9/10/2004	FL N 1807555 E 6670189	N	570.9	575.3	22.7	102.4	90	1
56	9/10/2004	FL N 1807610 E 6670156	N	571.0	576.1	17.4	102.8	90	1
57	9/10/2004	FL N 1807650 E 6670129	N	571.2	576.4	21.0	102.3	90	1
58	9/10/2004	FL N 1807765 E 6670136	N	572.5	577.5	17.5	102.3	90	1
59	9/10/2004	FL N 1807767 E 6670180	N	572.6	577.6	16.5	104.5	92	1
60	9/13/2004	FL N 1807575 E 6670432	N	575.0	576.8	11.1	102.7	90	1
61	9/13/2004	FL N 1807512 E 6670468	N	574.9	574.9	10.8	102.3	90	1
62	9/13/2004	FL N 1807608 E 6670451	N	575.0	577.3	20.5	103.5	91	1
63	9/13/2004	FL N 1807627 E 6670443	N	575.2	577.6	16.8	105.6	93	1
64	9/13/2004	FL N 1807649 E 6670481	N	575.1	577.6	22.1	103.5	91	1
65	9/13/2004	OG N 1807985 E 6670212	N	573.3	579.8	19.5	100.8	88	1
66	9/13/2004	OG N 1807971 E 6670195	N	573.2	579.5	21.5	100.3	88	1
67	9/13/2004	OG N 1807958 E 6670183	N	573.4	579.5	16.9	98.2	86	1
68	9/13/2004	OG N 1807942 E 6670158	N	574.3	579.4	19.5	105.7	93	1
69	9/13/2004	OG N 1807911 E 6670119	N	574.6	579.4	15.1	104.5	92	1
70	9/14/2004	FL N 1807641 E 6670174	S	573.0	576.5	16.5	104.7	92	1
71	9/14/2004	FL N 1807610 E 6670286	S	572.5	576.6	19.5	103.5	91	1
72	9/14/2004	FL N 1807729 E 6670342	S	571.0	578.8	14.5	102.2	90	1
73	9/14/2004	FL N 1807556 E 6670417	S	575.5	576.4	15.0	103.9	91	1
74	9/14/2004	FL N 1807782 E 6670448	S	571.5	578.8	19.0	104.8	92	1
75	9/14/2004	OG N 1808039 E 6670493	N	570.8	591.9	17.2	97.9	88	3
76	9/14/2004	OG N 1808062 E 6670055	N	570.4	579.9	16.1	97.3	87	3
77	9/14/2004	OG N 1808110 E 6670467	N	570.3	581.9	15.5	97.7	88	3
78	9/14/2004	OG N 1808047 E 6670321	N	570.6	580.8	20.2	100.5	90	3
79	9/14/2004	OG N 1808101 E 6670281	N	570.9	581.1	16.1	99.7	89	3
80	9/15/2004	FL N 1807942 E 6670491	N	574.0	580.4	23.4	100.1	90	3



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81	9/15/2004	FL	N 1807910 E 6670416	N	574.0	579.8	20.7	101.2	91	3
82	9/15/2004	FL	N 1807937 E 6670386	N	573.8	580.0	18.0	101.2	91	3
83	9/15/2004	FL	N 1807896 E 6670321	N	573.7	579.4	17.7	99.9	90	3
84	9/15/2004	FL	N 1807923 E 6670281	N	573.7	579.5	15.5	103.9	93	3
85	9/15/2004	OG	N 1808232 E 6670141	N	573.8	581.8	19.1	95.1	85	3
86	9/15/2004	OG	N 1808169 E 6670294	N	573.7	581.7	27.7	95.9	86	3
87	9/15/2004	OG	N 1808260 E 6670486	N	575.0	583.4	27.5	95.8	86	3
88	9/15/2004	OG	N 1808168 E 6670063	N	574.0	580.9	18.1	104.7	94	3
89	9/15/2004	OG	N 1808271 E 6670368	N	575.0	583.1	18.9	103.9	93	3
90	9/15/2004	FL	N 1807695 E 6670134	N	574.2	575.8	20.6	101.6	91	3
91	9/15/2004	FL	N 1807793 E 6670145	N	574.6	577.8	18.5	104.7	94	3
92	9/15/2004	FL	N 1807780 E 6670255	N	572.6	578.1	23.7	101.5	91	3
93	9/15/2004	FL	N 1807622 E 6670227	N	574.5	576.4	21.1	104.8	94	3
94	9/15/2004	FL	N 1807742 E 6670326	N	574.5	577.9	18.9	105.6	95	3
95	9/15/2004	FL	N 1807635 E 6670372	N	576.0	577.1	17.0	105.3	94	3
96	9/15/2004	FL	N 1807713 E 6670394	N	572.0	577.9	20.0	100.2	90	3
97	9/15/2004	FL	N 1807765 E 6670371	N	573.9	578.4	18.9	105.6	95	3
98	9/15/2004	FL	N 1807775 E 6670424	N	575.8	578.6	16.9	104.2	93	3
99	9/15/2004	FL	N 1807732 E 6670456	N	577.7	578.4	19.1	101.2	91	3
100	9/16/2004	FL	N 1808257 E 6670026	N	572.6	581.6	16.3	102.4	92	3
101	9/16/2004	FL	N 1808136 E 6670176	N	572.4	571.1	17.6	103.0	92	3
102	9/16/2004	SZ	N 1808255 E 6670175	N	572.7	582.5	16.4	105.4	95	3
103	9/16/2004	SZ	N 1808143 E 6670380	N	572.6	581.8	15.3	104.9	94	3
104	9/16/2004	SZ	N 1808239 E 6670526	N	572.5	583.4	16.4	100.7	90	3
105	9/16/2004	OG	N 1808279 E 6670432	N	571.1	583.5	19.1	98.9	89	3
106	9/16/2004	OG	N 1808294 E 6670014	N	572.2	582.9	17.1	97.7	88	3
107	9/16/2004	OG	N 1808441 E 6670021	N	572.2	583.5	18.6	96.2	86	3
108	9/16/2004	SZ	N 1808454 E 6670492	N	576.0	585.3	16.8	102.0	91	3
109	9/16/2004	SZ	N 1808370 E 6670250	N	576.1	583.4	18.9	100.0	90	3
110	9/16/2004	FL	N 1807592 E 6670513	S	573.7	577.3	12.4	99.9	90	3
111	9/16/2004	FL	N 1807678 E 6670615	S	574.0	578.5	12.2	101.9	91	3
112	9/16/2004	FL	N 1807785 E 6670537	S	574.6	579.1	18.7	100.0	90	3
113	9/16/2004	FL	N 1807962 E 6670015	S	576.4	578.9	11.0	100.9	90	3
114	9/16/2004	FL	N 1807865 E 6670451	S	575.9	579.6	14.5	100.2	90	3
115	9/16/2004	FL	N 1807588 E 6670511	N	573.6	577.3	17.7	99.9	90	3
116	9/16/2004	FL	N 1807542 E 6670560	N	575.5	576.9	14.0	102.0	91	3
117	9/16/2004	FL	N 1807592 E 6670620	N	575.7	577.5	18.3	102.4	92	3
118	9/16/2004	FL	N 1807650 E 6670578	N	575.9	578.0	15.1	100.3	90	3
119	9/16/2004	FL	N 1807785 E 6670499	N	576.4	579.0	16.5	99.9	90	3
120	9/16/2004	FL	N 1807875 E 6670053	N	577.0	578.3	20.6	100.3	90	3



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121	9/16/2004	FL N 1807969 E 6670111	N	575.8	579.4	17.5	100.8	90	3
122	9/16/2004	FL N 1807884 E 6670271	N	575.5	579.2	21.4	101.5	91	3
123	9/16/2004	FL N 1807910 E 6670528	N	575.8	580.4	15.9	100.5	90	3
124	9/17/2004	FL N 1808390 E 6670009	N	573.7	582.8	16.7	102.1	92	3
125	9/17/2004	FL N 1808304 E 6670155	N	577.7	582.6	15.7	100.7	90	3
126	9/17/2004	FL N 1808394 E 6670293	N	577.8	583.9	17.7	101.5	91	3
127	9/17/2004	FL N 1808309 E 6670390	N	577.7	583.5	16.8	99.9	90	3
128	9/17/2004	FL N 1808391 E 6670485	N	577.5	584.5	15.7	103.6	93	3
129	9/17/2004	FL N 1808081 E 6670153	N	572.0	580.5	16.5	100.8	90	3
130	9/17/2004	FL N 1808080 E 6670448	N	573.1	581.6	19.3	100.3	90	3
131	9/17/2004	FL N 1808165 E 6669980	N	575.5	580.6	20.1	103.4	90	1
132	9/17/2004	FL N 1808224 E 6670234	N	574.5	582.1	16.8	109.8	96	1
133	9/17/2004	FL N 1808188 E 6670492	N	574.5	582.8	17.7	108.7	95	1
134	9/17/2004	OG N 1807692 E 6670643	N	571.3	579.6	24.1	95.2	85	3
135	9/17/2004	OG N 1807513 E 6670696	N	571.4	576.0	21.8	95.0	85	3
136	9/17/2004	SZ N 1807662 E 6670638	N	571.5	578.4	17.5	100.8	90	3
137	9/17/2004	SZ N 1807558 E 6670641	N	571.6	577.4	16.9	101.2	91	3
138	9/17/2004	SZ N 1807603 E 6670680	N	571.7	577.9	20.7	104.3	94	3
139	9/17/2004	OG N 1808426 E 6670547	N	576.1	585.2	20.5	97.3	87	3
140	9/17/2004	OG N 1808441 E 6670626	N	575.0	585.6	20.6	94.4	85	3
141	9/17/2004	OG N 1807894 E 6670656	N	572.8	579.6	23.4	95.0	85	3
142	9/17/2004	SZ N 1808431 E 6670602	N	576.3	585.2	14.7	102.5	92	3
143	9/17/2004	SZ N 1808433 E 6670572	N	573.0	585.3	16.5	106.2	95	3
144	9/20/2004	FL N 1807558 E 6670515	N	576.4	576.9	12.2	103.7	93	3
145	9/20/2004	FL N 1807610 E 6670580	N	577.4	577.6	12.5	100.6	90	3
146	9/20/2004	FL N 1807690 E 6670580	N	577.8	578.4	14.1	100.5	90	3
147	9/20/2004	FL N 1807788 E 6670586	N	578.2	579.4	13.3	102.0	91	3
148	9/20/2004	FL N 1807818 E 6670617	N	578.4	579.6	14.2	102.3	92	3
149	9/20/2004	FL N 1808020 E 6670006	N	572.3	579.4	14.3	100.6	90	3
150	9/20/2004	FL N 1808062 E 6670194	N	573.9	580.5	14.5	101.4	91	3
151	9/20/2004	FL N 1808089 E 6670340	N	572.7	581.3	13.7	101.1	91	3
152	9/20/2004	FL N 1808040 E 6670425	N	574.6	581.2	14.0	99.9	90	3
153	9/20/2004	FL N 1808013 E 6670527	N	572.7	581.2	14.3	100.8	90	3
154	9/20/2004	OG N 1808423 E 6670674	N	574.0	585.6	19.1	98.5	88	3
155	9/20/2004	OG N 1808401 E 6670737	N	575.7	585.6	16.9	95.4	86	3
156	9/20/2004	OG N 1807881 E 6670658	N	572.0	580.5	20.9	96.7	87	3
157	9/20/2004	OG N 1807904 E 6670608	N	572.1	580.6	21.1	95.8	86	3
158	9/20/2004	SZ N 1807944 E 6670696	N	572.3	581.2	17.7	103.1	92	3
159	9/20/2004	SZ N 1808020 E 6670674	N	572.4	581.8	14.3	100.8	90	3
160	9/20/2004	SZ N 1808079 E 6670617	N	573.0	582.2	18.9	99.9	90	3



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161	9/20/2004	SZ N 1808180 E 6670563	N	573.8	582.8	21.4	102.7	92	3
162	9/20/2004	FL N 1808265 E 6670590	N	573.6	583.7	20.0	103.5	93	3
163	9/20/2004	FL N 1808255 E 6670657	N	572.5	584.9	20.9	102.2	92	3
164	9/20/2004	FL N 1808106 E 6670005	N	574.1	580.2	18.6	103.1	92	3
165	9/20/2004	FL N 1808068 E 6670110	N	574.0	580.3	13.3	102.8	92	3
166	9/20/2004	FL N 1808005 E 6670256	N	575.7	580.2	19.0	104.1	93	3
167	9/20/2004	FL N 1808057 E 6670383	N	573.6	581.2	17.0	100.9	90	3
168	9/20/2004	FL N 1808095 E 6670505	N	575.0	581.8	23.7	99.9	90	3
169	9/22/2004	FL N 1807621 E 6670661	N	573.5	578.1	10.6	102.6	92	3
170	9/22/2004	FL N 1807817 E 6670648	N	574.6	579.8	10.5	103.2	93	3
171	9/22/2004	FL N 1807874 E 6670572	N	574.0	580.1	9.4	103.6	93	3
172	9/22/2004	FL N 1808070 E 6670675	N	574.9	582.3	10.3	101.3	91	3
173	9/22/2004	FL N 1808116 E 6670570	N	574.5	582.3	11.7	100.1	90	3
174	9/22/2004	FL N 1808163 E 6670690	N	576.2	583.2	9.8	102.6	92	3
175	9/22/2004	FL N 1808203 E 6670595	N	575.0	583.2	10.5	104.5	94	3
176	9/22/2004	FL N 1808291 E 6670687	N	575.4	584.4	10.9	100.1	90	3
177	9/22/2004	FL N 1808394 E 6670682	N	573.5	585.5	10.5	102.6	92	3
178	9/22/2004	FL N 1808346 E 6670552	S	573.7	584.4	11.3	102.9	92	3
179	9/23/2004	FL N 1807580 E 6670670	N	577.0	577.5	15.2	102.6	92	3
180	9/23/2004	FL N 1807716 E 6670645	N	575.9	578.8	16.3	101.9	91	3
181	9/23/2004	FL N 1807768 E 6670645	N	576.5	579.5	16.2	103.9	93	3
182	9/23/2004	FL N 1807959 E 6670630	N	576.0	581.2	16.7	102.2	92	3
183	9/23/2004	FL N 1808028 E 6670570	N	576.7	581.5	15.9	104.9	94	3
184	9/23/2004	FL N 1808387 E 6670532	N	575.5	584.6	15.5	100.0	90	3
185	9/23/2004	FL N 1808320 E 6670685	N	576.0	584.5	15.3	101.1	91	3
186	9/23/2004	FL N 1808285 E 6670575	N	575.2	584.1	15.3	105.8	95	3
187	9/23/2004	FL N 1808215 E 6670562	N	577.0	583.2	16.3	104.7	94	3
188	9/23/2004	FL N 1808117 E 6670667	N	578.0	582.7	15.6	103.7	93	3
189	9/24/2004	FL N 1807684 E 6670679	N	577.9	578.7	12.2	103.7	93	3
190	9/24/2004	FL N 1807768 E 6670641	N	578.2	579.4	12.8	104.3	94	3
191	9/24/2004	FL N 1807846 E 6670666	N	576.0	580.3	14.3	104.9	94	3
192	9/24/2004	FL N 1807944 E 6670567	N	578.1	580.8	13.3	107.0	96	3
193	9/24/2004	FL N 1808047 E 6670636	N	578.5	581.9	13.5	106.6	96	3
194	9/24/2004	OG N 1808405 E 6670794	N	576.6	585.9	21.2	98.7	89	3
195	9/24/2004	OG N 1807501 E 6670892	N	576.0	577.5	20.8	98.8	89	3
196	9/24/2004	OG N 1807531 E 6670964	N	576.4	578.1	24.8	94.7	85	3
197	9/24/2004	OG N 1808414 E 6670906	N	576.3	586.4	21.6	97.7	88	3
198	9/24/2004	OG N 1808092 E 6670875	N	576.2	583.3	21.0	99.7	89	3
199	9/24/2004	FL N 1808142 E 6670568	N	579.9	582.5	13.4	110.0	99	3
200	9/24/2004	FL N 1808208 E 6670669	N	578.8	583.5	15.7	107.5	96	3



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201	9/24/2004	FL N 1808279 E 6670657	N	578.0	584.3	16.0	105.3	94	3
202	9/24/2004	FL N 1808356 E 6670658	N	578.1	585.4	15.0	109.0	98	3
203	9/24/2004	FL N 1808330 E 6670572	N	577.4	584.4	14.2	109.9	99	3
204	9/24/2004	FL N 1808325 E 6670787	N	577.2	585.1	16.1	103.4	93	3
205	9/24/2004	FL N 1808221 E 6670882	N	577.6	584.4	16.9	101.4	91	3
206	9/24/2004	FL N 1808051 E 6670865	N	577.6	584.2	16.9	100.9	90	3
207	9/24/2004	FL N 1808051 E 6670805	N	577.3	582.4	17.5	100.8	90	3
208	9/24/2004	FL N 1807920 E 6670727	N	577.5	581.1	16.7	100.9	90	3
209	9/24/2004	FL N 1807717 E 6670834	N	575.2	579.5	20.1	106.0	95	3
210	9/24/2004	FL N 1807580 E 6670872	N	575.6	578.5	21.9	102.7	92	3
211	9/24/2004	FL N 1807624 E 6670721	N	574.3	578.4	22.5	103.6	93	3
212	9/24/2004	FL N 1807790 E 6670808	N	574.8	580.2	19.1	103.2	93	3
213	9/24/2004	FL N 1807872 E 6670890	N	576.9	581.3	21.3	102.5	92	3
214	9/27/2004	FL N 1807568 E 6670728	N	576.0	577.8	14.3	105.7	95	3
215	9/27/2004	FL N 1807686 E 6670882	N	576.0	579.5	8.8	106.6	96	3
216	9/27/2004	FL N 1807790 E 6670723	N	575.9	579.8	18.7	102.4	92	3
217	9/27/2004	FL N 1807882 E 6670881	N	575.8	581.3	9.7	106.6	96	3
218	9/27/2004	FL N 1807980 E 6670785	N	578.0	581.8	18.2	102.9	92	3
219	9/27/2004	FL N 1808030 E 6670722	N	578.0	582.1	15.9	107.4	96	3
220	9/27/2004	FL N 1808108 E 6670816	N	577.0	583.1	13.4	109.6	98	3
221	9/27/2004	FL N 1808194 E 6670892	N	578.5	584.2	13.8	107.6	97	3
222	9/27/2004	FL N 1808150 E 6670795	N	578.6	584.4	10.1	107.2	96	3
223	9/27/2004	FL N 1808160 E 6670720	N	578.8	585.1	9.9	109.9	99	3
224	9/27/2004	FL N 1808144 E 6670729	N	578.1	583.2	9.4	106.6	96	3
225	9/27/2004	FL N 1808181 E 6670793	N	578.6	583.8	13.6	102.5	92	3
226	9/27/2004	FL N 1808165 E 6670872	N	578.6	583.9	14.9	99.8	90	3
227	9/27/2004	FL N 1808280 E 6670739	N	579.7	584.5	15.3	100.9	90	3
228	9/27/2004	FL N 1808324 E 6670825	N	578.3	585.2	16.2	100.3	90	3
229	9/27/2004	FL N 1808079 E 6670725	S	579.1	582.5	12.2	101.9	91	3
230	9/27/2004	FL N 1808029 E 6670756	S	578.5	582.6	12.4	100.0	90	3
231	9/27/2004	FL N 1808141 E 6670916	N	579.5	583.8	15.8	99.8	90	3
232	9/28/2004	FL N 1808447 E 6670393	N	578.0	584.8	16.8	100.4	90	3
233	9/28/2004	FL N 1808433 E 6670461	N	577.9	584.9	16.5	101.7	91	3
234	9/28/2004	FL N 1808449 E 6670540	N	578.0	585.2	15.2	103.1	92	3
235	9/28/2004	FL N 1808416 E 6670633	N	577.7	585.5	16.3	102.8	92	3
236	9/28/2004	FL N 1808455 E 6670737	N	578.1	585.7	14.7	101.7	91	3
237	9/28/2004	FL N 1808457 E 6670375	N	580.0	584.8	14.9	102.7	92	3
238	9/28/2004	FL N 1808455 E 6670458	N	579.8	585.2	16.5	102.4	92	3
239	9/28/2004	FL N 1808470 E 6670550	N	580.0	585.6	16.7	100.4	90	3
240	9/28/2004	FL N 1808461 E 6670654	N	579.7	585.8	14.9	101.6	91	3



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241	9/28/2004	FL N 1808463 E 6670717	N	580.0	586.1	13.7	106.0	95	3
242	9/28/2004	FL N 1808007 E 6670640	N	580.0	581.5	19.5	106.8	96	3
243	9/28/2004	FL N 1808082 E 6670555	N	580.0	581.9	19.5	105.7	95	3
244	9/28/2004	FL N 1808173 E 6670660	N	581.5	583.2	18.8	108.2	95	1
245	9/28/2004	FL N 1808278 E 6670570	N	579.0	583.8	18.4	108.8	95	1
246	9/28/2004	FL N 1808366 E 6670624	N	580.0	584.8	16.5	108.9	96	1
247	9/28/2004	FL N 1807864 E 6670445	N	577.8	579.5	18.1	105.1	94	3
248	9/28/2004	FL N 1807975 E 6670451	N	576.0	580.6	21.3	102.6	92	3
249	9/28/2004	FL N 1807855 E 6670451	N	577.5	579.8	23.0	100.2	90	3
250	9/28/2004	FL N 1807965 E 6670597	N	579.9	581.1	21.3	102.4	92	3
251	9/28/2004	FL N 1807956 E 6670686	N	578.0	581.3	22.4	100.8	90	3
252	9/29/2004	FL N 1807594 E 6670840	N	576.5	578.5	12.7	109.5	98	3
253	9/29/2004	FL N 1807650 E 6670780	N	575.3	579.8	13.9	107.6	97	3
254	9/29/2004	FL N 1807728 E 6670810	N	575.3	579.5	13.8	105.7	95	3
255	9/29/2004	FL N 1807580 E 6670940	N	574.1	581.2	14.0	106.9	96	3
256	9/29/2004	FL N 1807966 E 6670950	N	575.0	582.4	13.9	107.6	97	3
257	9/29/2004	FL N 1808039 E 6670932	N	576.5	582.9	15.5	107.6	94	1
258	9/29/2004	FL N 1808215 E 6670935	N	578.5	583.6	14.4	107.2	94	1
259	9/29/2004	FL N 1808215 E 6670935	N	579.0	584.5	13.6	108.6	95	1
260	9/29/2004	FL N 1808230 E 6670862	N	579.2	584.4	14.9	108.0	95	1
261	9/29/2004	FL N 1808310 E 6670738	N	580.5	584.7	13.9	107.6	94	1
262	9/29/2004	OG N 1808425 E 6671001	N	573.0	586.8	19.7	98.6	88	3
263	9/29/2004	OG N 1807519 E 6671052	N	572.4	578.5	17.7	98.9	89	3
264	9/29/2004	OG N 1807526 E 6671253	N	571.0	579.4	17.3	98.4	88	3
265	9/29/2004	OG N 1808444 E 6671143	N	574.1	587.4	19.0	98.1	88	3
266	9/29/2004	OG N 1808237 E 6671075	N	572.2	575.4	21.0	98.0	88	3
267	9/29/2004	OG N 1807610 E 6671155	N	572.3	579.8	19.3	99.4	89	3
268	9/29/2004	SZ N 1808428 E 6671171	N	574.5	587.4	15.2	104.8	94	3
269	9/29/2004	SZ N 1808428 E 6671101	N	574.6	587.2	15.0	107.8	95	1
270	9/29/2004	FL N 1808443 E 6671155	N	575.0	586.8	16.7	106.4	95	3
271	9/29/2004	FL N 1808418 E 6671155	N	574.9	587.3	15.7	105.2	94	3
272	9/29/2004	FL N 1808360 E 6670022	N	575.5	582.6	18.3	100.1	90	3
273	9/29/2004	FL N 1808391 E 6670124	N	575.6	583.3	15.1	107.7	94	1
274	9/29/2004	FL N 1808405 E 6670280	N	578.5	583.9	14.6	105.9	95	3
275	9/29/2004	FL N 1808442 E 6670345	N	581.0	584.5	14.9	106.7	94	1
276	9/29/2004	FL N 1808422 E 6670383	N	580.0	584.5	15.2	107.1	94	1
277	9/29/2004	FL N 1808446 E 6670180	S	576.0	584.0	14.5	100.2	90	3
278	9/29/2004	FL N 1808449 E 6670258	S	578.0	584.4	14.5	102.2	92	3
279	9/30/2004	SZ N 1808040 E 6671062	N	572.2	583.5	21.9	101.1	91	3
280	9/30/2004	SZ N 1808271 E 6671140	N	572.3	585.8	22.1	99.9	90	3



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281	9/30/2004	SZ	N 1808362 E 6671070	N	573.0	586.5	20.1	103.2	93	3
282	9/30/2004	FL	N 1808133 E 6671160	N	572.3	584.6	19.0	103.6	93	3
283	9/30/2004	FL	N 1808315 E 6670995	N	572.1	585.6	19.7	102.7	92	3
284	9/30/2004	FL	N 1808318 E 6671166	N	574.0	586.4	20.9	102.7	92	3
285	9/30/2004	FL	N 1808125 E 6671069	N	573.0	584.3	19.2	100.0	90	3
286	9/30/2004	SZ	N 1807640 E 6671074	N	572.6	579.8	19.8	103.4	93	3
287	9/30/2004	SZ	N 1807774 E 6671150	N	572.5	581.4	20.3	100.3	90	3
288	9/30/2004	SZ	N 1807918 E 6671052	N	572.7	582.3	20.3	102.2	92	3
289	9/30/2004	FL	N 1808024 E 6671183	N	573.0	573.7	16.7	109.2	96	1
290	9/30/2004	FL	N 1808070 E 6670981	N	573.5	573.5	17.3	109.8	96	1
291	9/30/2004	FL	N 1808184 E 6671060	N	573.7	574.7	17.9	106.9	94	1
292	9/30/2004	FL	N 1808225 E 6671177	N	573.0	575.5	18.2	106.3	93	1
293	9/30/2004	FL	N 1808334 E 6671033	N	573.5	576.2	19.3	106.7	94	1
294	9/30/2004	FL	N 1807879 E 6671054	N	574.3	581.8	22.5	100.1	90	3
295	9/30/2004	FL	N 1807815 E 6671068	N	574.5	581.4	21.3	100.2	90	3
296	9/30/2004	FL	N 1807711 E 6671093	N	574.4	580.5	20.5	102.1	92	3
297	9/30/2004	FL	N 1807661 E 6671213	N	574.0	580.5	20.7	102.1	92	3
298	9/30/2004	FL	N 1807564 E 6671036	N	574.2	579.8	20.3	104.2	93	3
299	10/1/2004	FL	N 1808190 E 6671152	S	573.0	583.5	16.7	108.9	96	1
300	10/1/2004	FL	N 1808055 E 6671057	S	575.0	582.4	16.2	113.4	97	4
301	10/1/2004	FL	N 1807805 E 6671032	S	575.3	582.1	10.0	99.9	90	3
302	10/1/2004	FL	N 1807805 E 6671032	S	575.0	581.2	12.1	100.9	90	3
303	10/1/2004	FL	N 1807605 E 6671120	S	575.1	579.6	6.0	99.8	90	3
304	10/1/2004	FL	N 1807834 E 6670723	N	576.5	580.3	20.9	100.9	90	3
305	10/1/2004	FL	N 1807924 E 6670820	N	579.0	581.4	18.7	102.5	92	3
306	10/1/2004	FL	N 1808012 E 6670922	N	579.5	582.6	19.7	101.5	91	3
307	10/1/2004	FL	N 1808160 E 6670778	N	579.7	583.5	20.9	101.8	91	3
308	10/1/2004	FL	N 1808335 E 6670870	N	579.5	585.5	19.4	103.3	93	3
309	10/1/2004	FL	N 1808340 E 6670996	N	576.6	582.4	19.5	107.3	92	4
310	10/1/2004	FL	N 1808330 E 6670072	N	577.3	582.5	20.2	105.9	91	4
311	10/1/2004	FL	N 1808385 E 6670159	N	578.0	583.4	18.1	106.6	91	4
312	10/1/2004	FL	N 1808409 E 6670246	N	579.2	583.9	17.4	105.8	90	4
313	10/1/2004	FL	N 1808380 E 6670318	N	579.0	583.9	17.5	106.6	91	4
314	10/1/2004	FL	N 1808401 E 6670060	N	576.5	583.2	15.7	104.2	93	3
315	10/1/2004	FL	N 1808393 E 6670074	N	577.0	582.8	17.2	102.3	92	3
316	10/1/2004	FL	N 1808315 E 6670117	N	580.0	582.5	16.5	103.1	92	3
317	10/1/2004	FL	N 1808309 E 6670250	N	578.0	582.9	17.1	100.9	90	3
318	10/1/2004	FL	N 1808303 E 6670326	N	579.0	583.2	18.3	102.9	92	3
319	10/1/2004	FL	N 1808358 E 6669968	N	578.0	582.4	11.9	107.5	92	4
320	10/1/2004	FL	N 1808355 E 6670168	N	579.1	583.2	11.8	104.4	94	3



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321	10/1/2004	FL N 1808315 E 6670312	N	579.5	583.3	13.5	100.0	90	3
322	10/1/2004	FL N 1808375 E 6670418	N	579.0	584.3	11.6	103.8	93	3
323	10/1/2004	FL N 1808317 E 6670486	N	578.4	583.8	12.1	106.8	96	3
324	10/4/2004	FL N 1808432 E 6670004	N	577.4	583.4	12.1	103.8	93	3
325	10/4/2004	FL N 1808315 E 6670445	N	579.1	583.8	11.8	106.0	95	3
326	10/4/2004	FL N 1808364 E 6670378	N	580.0	583.9	12.4	107.7	92	4
327	10/4/2004	FL N 1808390 E 6670242	N	580.1	583.7	11.5	108.7	93	4
328	10/4/2004	FL N 1808351 E 6670147	N	580.8	582.9	12.1	106.8	91	4
329	10/4/2004	OG N 1808309 E 6671425	N	575.4	587.6	21.9	86.5	87	6
330	10/4/2004	OG N 1808176 E 6671337	N	571.2	585.7	23.9	86.3	87	6
331	10/4/2004	OG N 1808058 E 6671241	N	570.7	584.2	19.6	87.8	88	6
332	10/4/2004	OG N 1807844 E 6671340	N	570.8	582.5	22.3	86.9	87	6
333	10/4/2004	OG N 1807619 E 6671418	N	571.0	580.8	23.0	85.7	86	6
334	10/5/2004	FL N 1808006 E 6670462	N	576.5	580.9	21.6	92.5	93	6
335	10/5/2004	FL N 1808157 E 6670239	S	575.5	581.5	19.5	103.5	93	3
336	10/5/2004	FL N 1808220 E 6670432	S	576.8	582.8	11.5	100.8	90	3
337	10/6/2004	FL N 1808307 E 6670078	N	581.5	582.4	21.6	103.7	93	3
338	10/6/2004	FL N 1808317 E 6670220	N	581.4	582.9	20.2	105.8	95	3
339	10/6/2004	FL N 1808375 E 6670235	N	581.2	583.5	20.7	102.4	92	3
340	10/6/2004	FL N 1808336 E 6670362	N	581.1	583.6	19.9	101.9	91	3
341	10/6/2004	FL N 1808344 E 6670483	N	581.0	584.2	19.2	102.9	92	3
342	10/6/2004	FL N 1808238 E 6670598	N	581.0	583.6	16.2	104.7	94	3
343	10/6/2004	FL N 1808260 E 6670446	N	578.9	583.3	16.3	103.8	93	3
344	10/6/2004	FL N 1808252 E 6670322	N	578.0	582.7	17.0	103.6	93	3
345	10/6/2004	FL N 1808197 E 6670212	N	577.3	581.8	17.0	100.6	90	3
346	10/6/2004	FL N 1808218 E 6670080	N	576.0	581.5	14.9	104.4	94	3
347	10/6/2004	FL N 1808084 E 6670276	N	580.0	580.9	21.0	95.1	96	6
348	10/6/2004	FL N 1808067 E 6670504	N	577.0	581.6	24.0	95.0	95	6
349	10/6/2004	FL N 1808069 E 6670355	N	578.1	581.1	24.3	95.1	96	6
350	10/6/2004	FL N 1808035 E 6670185	N	576.0	580.2	23.0	94.9	95	6
351	10/6/2004	FL N 1808020 E 6670082	N	577.9	579.7	21.5	93.4	94	6
352	10/7/2004	FL N 1808107 E 6670619	N	580.0	582.5	20.3	101.4	91	3
353	10/7/2004	FL N 1808179 E 6670622	N	582.0	583.1	17.9	101.7	91	3
354	10/7/2004	FL N 1808219 E 6670719	N	581.0	583.8	24.9	90.5	91	6
355	10/7/2004	FL N 1808280 E 6670862	N	581.0	584.9	23.1	93.4	94	6
356	10/7/2004	FL N 1808254 E 6670941	N	580.9	585.1	23.6	89.7	90	6
357	10/7/2004	FL N 1808258 E 6670723	N	581.2	584.2	19.6	94.6	95	6
358	10/7/2004	FL N 1808217 E 6670811	N	581.0	584.2	21.6	95.8	96	6
359	10/7/2004	FL N 1808176 E 6670978	N	581.1	584.5	21.0	95.3	96	6
360	10/7/2004	FL N 1808124 E 6670890	N	581.1	583.5	19.1	95.1	96	6



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361	10/7/2004	FL N 1808073 E 6670787	N	580.9	582.7	22.0	94.7	95	6
362	10/7/2004	FL N 1808186 E 6670740	S	581.2	583.6	12.6	108.1	92	4
363	10/7/2004	FL N 1808248 E 6670760	S	581.3	584.4	15.8	107.5	92	4
364	10/8/2004	FL N 1807682 E 6670714	N	573.2	578.8	21.4	90.1	91	6
365	10/8/2004	FL N 1807785 E 6670786	N	576.0	580.1	22.3	90.5	91	6
366	10/8/2004	FL N 1807888 E 6670827	N	579.0	581.2	23.3	89.9	90	6
367	10/8/2004	FL N 1807762 E 6670925	N	576.0	580.4	19.3	91.8	92	6
368	10/8/2004	FL N 1807635 E 6670929	N	575.9	579.2	22.4	91.7	92	6
369	10/8/2004	FL N 1807615 E 6670826	N	577.2	578.6	20.4	91.1	92	6
370	10/8/2004	FL N 1807684 E 6670783	N	577.4	579.1	23.5	90.9	91	6
371	10/8/2004	FL N 1807786 E 6670886	N	577.2	580.4	20.6	91.4	92	6
372	10/8/2004	FL N 1807879 E 6670955	N	578.0	581.5	23.7	91.2	92	6
373	10/8/2004	FL N 1807712 E 6670977	N	577.1	580.1	20.2	93.5	94	6
374	10/8/2004	FL N 1808010 E 6670712	N	579.1	581.9	24.6	90.2	91	6
375	10/8/2004	FL N 1808064 E 6670848	N	581.3	582.8	23.4	91.8	92	6
376	10/8/2004	FL N 1808189 E 6670942	N	582.1	584.4	25.5	90.7	91	6
377	10/8/2004	FL N 1808286 E 6670934	N	582.2	585.3	25.7	91.0	91	6
378	10/8/2004	FL N 1808288 E 6670818	N	581.4	584.8	23.3	91.5	92	6
379	10/8/2004	FL N 1807970 E 6670761	S	578.2	581.6	15.2	91.8	92	6
380	10/8/2004	FL N 1808135 E 6670809	S	579.9	583.4	25.8	90.0	90	6
381	10/11/2004	FL N 1808329 E 6670962	N	575.4	585.7	13.6	104.3	94	3
382	10/11/2004	FL N 1808340 E 6671022	N	575.3	586.1	15.6	100.8	90	3
383	10/11/2004	FL N 1808264 E 6671022	N	574.2	585.4	15.8	100.4	90	3
384	10/11/2004	FL N 1808214 E 6671090	N	574.3	585.2	16.6	99.8	90	3
385	10/11/2004	FL N 1808212 E 6671160	N	574.9	588.4	14.6	102.7	92	3
386	10/11/2004	FL N 1808450 E 6670782	N	580.6	586.5	19.6	95.5	96	6
387	10/11/2004	FL N 1808374 E 6670780	N	580.0	585.5	18.0	95.3	96	6
388	10/11/2004	FL N 1808322 E 6670915	N	580.7	585.5	16.6	93.7	94	6
389	10/11/2004	FL N 1808209 E 6670847	N	582.0	584.2	15.6	94.3	95	6
390	10/11/2004	FL N 1808225 E 6670767	N	582.4	584.1	17.1	94.0	94	6
391	10/11/2004	FL N 1808112 E 6670729	N	582.0	582.9	19.7	95.2	96	6
392	10/11/2004	FL N 1808135 E 6670808	N	580.4	583.4	19.7	93.5	94	6
393	10/11/2004	FL N 1808173 E 6670939	N	583.0	584.3	19.4	95.0	95	6
394	10/11/2004	FL N 1808151 E 6671051	N	575.4	584.4	20.5	95.0	95	6
395	10/11/2004	FL N 1808107 E 6671107	N	574.3	584.3	19.4	100.0	90	3
396	10/11/2004	FL N 1808280 E 6671103	N	574.5	585.8	17.9	100.8	90	3
397	10/11/2004	FL N 1808081 E 6670422	S	578.5	581.5	16.5	106.4	95	3
398	10/11/2004	FL N 1808185 E 6670378	S	579.0	582.3	16.5	104.7	94	3
399	10/12/2004	FL N 1808254 E 6670228	N	578.6	582.4	15.3	93.9	94	6
400	10/12/2004	FL N 1808129 E 6670318	N	579.0	581.5	15.2	95.0	95	6



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401	10/12/2004	FL N 1808196 E 6670458	N	578.3	582.6	16.8	94.1	95	6
402	10/12/2004	FL N 1808010 E 6670413	N	578.2	580.8	15.5	96.7	97	6
403	10/12/2004	FL N 1808057 E 6670240	N	580.2	580.8	14.6	96.4	97	6
404	10/12/2004	FL N 1808282 E 6670715	N	582.0	584.4	15.7	95.5	96	6
405	10/12/2004	FL N 1808174 E 6670735	N	582.1	583.5	15.1	94.3	95	6
406	10/12/2004	FL N 1808062 E 6670760	N	581.4	582.5	21.8	92.3	93	6
407	10/12/2004	FL N 1808093 E 6670842	N	581.4	583.1	23.4	92.1	93	6
408	10/12/2004	FL N 1808175 E 6670848	N	582.0	583.9	16.4	103.1	92	3
409	10/12/2004	FL N 1808080 E 6670654	N	581.0	582.3	17.0	100.6	90	3
410	10/12/2004	FL N 1808142 E 6670627	N	581.0	582.8	16.1	101.7	91	3
411	10/12/2004	FL N 1808240 E 6670638	N	582.0	583.7	16.3	101.1	91	3
412	10/12/2004	FL N 1808330 E 6670667	N	581.1	584.6	15.7	103.4	93	3
413	10/12/2004	FL N 1808334 E 6670531	N	580.0	584.2	16.3	101.3	91	3
414	10/12/2004	FL N 1808278 E 6670408	N	580.0	583.2	19.0	93.6	94	6
415	10/12/2004	FL N 1808240 E 6670493	N	580.1	583.2	21.4	90.4	91	6
416	10/12/2004	FL N 1808144 E 6670440	N	580.2	582.2	20.1	93.5	94	6
417	10/12/2004	FL N 1808066 E 6670480	N	580.0	581.5	11.5	106.0	95	3
418	10/12/2004	FL N 1808011 E 6670325	N	579.1	580.5	19.0	104.8	94	3
419	10/13/2004	FL N 1808252 E 6670081	N	577.5	581.8	25.7	95.9	96	6
420	10/13/2004	FL N 1808275 E 6670194	N	579.2	582.4	20.5	104.3	94	3
421	10/13/2004	FL N 1808186 E 6670290	N	578.0	581.9	21.0	104.5	94	3
422	10/13/2004	FL N 1808233 E 6670395	N	579.1	582.8	20.7	101.4	91	3
423	10/13/2004	FL N 1808131 E 6670486	N	581.1	582.2	22.1	99.8	90	3
424	10/13/2004	FL N 1808158 E 6670528	N	581.6	582.6	21.1	96.4	97	6
425	10/13/2004	FL N 1808128 E 6670361	N	580.1	581.7	23.0	92.6	93	6
426	10/13/2004	FL N 1808176 E 6670210	N	577.5	581.5	21.8	93.0	93	6
427	10/13/2004	FL N 1808126 E 6670125	N	577.0	580.8	23.5	91.5	92	6
428	10/13/2004	FL N 1808134 E 6670007	N	577.2	580.5	22.9	91.5	92	6
429	10/13/2004	FL N 1808019 E 6670054	N	578.5	579.5	21.0	91.1	92	6
430	10/13/2004	FL N 1808053 E 6670153	N	577.1	580.3	19.7	91.7	92	6
431	10/13/2004	FL N 1808018 E 6670226	N	578.1	580.2	18.8	92.7	93	6
432	10/13/2004	FL N 1808080 E 6670315	N	580.5	581.1	20.1	92.7	93	6
433	10/13/2004	FL N 1808110 E 6670433	N	579.6	581.8	19.5	94.6	95	6
434	10/13/2004	FL N 1808156 E 6670083	S	577.6	580.9	14.5	106.1	91	4
435	10/13/2004	FL N 1808270 E 6670133	S	580.0	582.2	14.0	106.4	91	4
436	10/14/2004	FL N 1808209 E 6670072	N	579.0	581.2	14.1	102.4	92	3
437	10/14/2004	FL N 1808216 E 6670143	N	578.2	581.7	19.2	90.2	91	6
438	10/14/2004	FL N 1808219 E 6670286	N	579.0	582.3	25.6	95.0	95	6
439	10/14/2004	FL N 1808252 E 6670382	N	580.0	582.9	24.8	94.1	95	6
440	10/14/2004	FL N 1808237 E 6670463	N	581.3	583.1	24.9	92.6	93	6



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IN-PLACE DENSITIES

Test No.	Date	Item ² Tested Location		Test ³ Method	Test Elev. (ft)	F.G. Elev. (ft)	Moisture (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type
441	10/14/2004	FL	N 1808152 E 6670064	N	579.0	580.7	15.1	100.6	90	3
442	10/14/2004	FL	N 1808175 E 6670165	N	578.5	581.4	18.0	90.3	91	6
443	10/14/2004	FL	N 1808182 E 6670265	N	578.9	581.8	25.9	96.3	97	6
444	10/14/2004	FL	N 1808184 E 6670358	N	580.1	582.1	24.7	90.3	91	6
445	10/14/2004	FL	N 1808132 E 6670415	N	581.0	581.9	23.8	95.7	96	6
446	10/14/2004	FL	N 1808102 E 6670781	N	580.3	582.1	14.7	101.2	91	3
447	10/14/2004	FL	N 1808131 E 6670781	N	581.3	583.2	18.8	90.4	91	6
448	10/14/2004	FL	N 1808139 E 6670864	N	582.0	583.6	18.3	92.6	93	6
449	10/14/2004	FL	N 1808075 E 6670935	N	579.4	583.3	24.9	92.5	93	6
450	10/14/2004	FL	N 1808011 E 6670770	N	580.3	582.4	24.8	95.9	96	6
451	10/14/2004	FL	N 1807975 E 6670739	N	579.3	581.6	13.3	101.4	91	3
452	10/14/2004	FL	N 1808047 E 6670766	N	582.0	582.4	20.7	90.4	91	6
453	10/14/2004	FL	N 1808070 E 6670830	N	582.0	582.8	18.0	90.7	91	6
454	10/14/2004	FL	N 1807986 E 6670925	N	580.5	582.5	23.4	96.1	97	6
455	10/14/2004	FL	N 1807964 E 6670840	N	579.4	581.9	26.5	91.1	92	6
456	10/14/2004	FL	N 1808327 E 6670023	N	580.0	582.3	13.8	102.5	92	3
457	10/14/2004	FL	N 1808385 E 6670191	N	581.7	583.5	19.8	91.6	92	6
458	10/14/2004	FL	N 1808311 E 6670292	N	580.6	583.2	19.0	90.9	91	6
459	10/14/2004	FL	N 1808407 E 6670364	N	581.1	584.3	23.1	96.9	97	6
460	10/14/2004	FL	N 1808405 E 6670463	N	580.3	584.6	24.3	95.3	96	6
461	10/14/2004	FL	N 1808138 E 6669993	S	576.8	580.5	14.5	102.2	92	3
462	10/14/2004	FL	N 1808265 E 6669984	S	576.1	581.6	15.0	103.9	93	3
463	10/14/2004	FL	N 1808303 E 6669990	S	578.5	581.9	14.0	105.0	94	3

²Item Tested:

OG - Original Ground
 FL - Fill

SZ - Scarified zone

³Test Method:

S - ASTM D1556 (Density of Soil In-Place by Sand Cone Method)
 N - ASTM D2922 (Density of Soil In-Place by Direct Transmission Nuclear Method)

APPENDIX B

**COMPACTION
TEST RESULTS**

JANUARY 26, 2007 THROUGH APRIL 16, 2007

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MAXIMUM DENSITY - OPTIMUM MOISTURE RELATIONSHIPS

Soil Type	Test Method ¹	Description	Optimum Moisture (%)	Maximum Density (pcf)
1	M	Brown Sandy Silt	16.2	111.0
2	M	Brown Sandy Clayey Silt	15.0	113.0
3	M	Brown, Silty, Sand with Traces of Silty Clay	15.9	115.0
4	M	Light Brown, Silty, Sand	15.2	113.0
5	M	Medium Brown, Silty, Clay	13.0	118.0
6	M	Dark Brown, Silty Sand with Traces of Clay	18.0	109.0
7	M	Brown Silty Sand with Clay	13.7	120.0
8	M	Brown, Silty Sand with Clay	13.0	112.0
9	M	Brown, Silty Sand with Clay	16.0	111.0

¹Test Method

M - ASTM D1557 (Maximum Density Optimum Moisture Relationship)



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Test No.	Date	Item ² Tested	Location	Test ³ Method	Test Elev. (ft)	F.G. Elev. (ft)	Moisture (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type
1	1/26/2007	OG	N 1806980 E 6669990	N	562.0	569.0	15.6	96.9	86	2
2	1/26/2007	OG	N 1806780 E 6670175	N	562.0	568.0	14.9	96.5	85	2
3	1/26/2007	OG	N 1806935 E 6670395	N	565.0	569.0	16.2	97.1	86	2
4	1/26/2007	SZ	N 1806820 E 6670020	N	563.0	568.0	15.3	101.9	90	2
5	1/26/2007	SZ	N 1807045 E 6670305	N	565.0	570.0	15.4	102.5	91	2
6	1/26/2007	FL	N 1806875 E 6670020	N	564.0	568.0	14.1	104.6	93	2
7	1/26/2007	FL	N 1806770 E 6670230	N	564.0	568.0	15.5	104.8	93	2
8	1/26/2007	FL	N 1807040 E 6670380	N	566.0	570.0	17.7	106.4	94	2
9	1/26/2007	FL	N 1806980 E 6670155	N	564.0	569.0	17.8	102.6	91	2
10	1/26/2007	FL	N 1806795 E 6670340	N	566.0	569.8	16.7	102.1	90	2
11	1/29/2007	FL	N 1806745 E 6670035	N	566.0	568.0	15.6	102.7	91	2
12	1/29/2007	FL	N 1806860 E 6670165	N	566.0	568.0	15.3	102.9	91	2
13	1/29/2007	FL	N 1807015 E 6670325	N	566.0	568.0	14.9	103.5	92	2
14	1/29/2007	FL	N 1806865 E 6670347	N	567.0	569.0	15.5	102.5	91	2
15	1/29/2007	FL	N 1807015 E 6670050	N	568.0	570.0	15.9	102.5	91	2
16	1/29/2007	OG	N 1807190 E 6670275	N	563.0	571.0	16.3	97.7	86	2
17	1/29/2007	OG	N 1807325 E 6670350	N	565.0	573.0	15.9	97.0	86	2
18	1/29/2007	OG	N 1807465 E 6670410	N	566.0	574.0	16.7	98.1	87	2
19	1/29/2007	SZ	N 1807460 E 6670275	N	563.0	574.0	15.6	102.0	90	2
20	1/29/2007	SZ	N 1807150 E 6670435	N	566.0	571.0	16.2	102.7	91	2
21	1/29/2007	FL	N 1807180 E 6670365	N	565.0	571.0	15.7	100.1	90	1
22	1/29/2007	FL	N 1807330 E 6670290	N	565.0	573.0	16.7	101.7	92	1
23	1/29/2007	FL	N 1807330 E 6670430	N	567.0	573.0	15.9	100.9	91	1
24	1/29/2007	FL	N 1807460 E 6670350	N	567.0	574.0	17.6	101.2	91	1
25	1/30/2007	FL	N 1807405 E 6670350	N	569.0	574.0	16.9	101.2	91	1
26	1/30/2007	FL	N 1807260 E 6670360	N	569.0	572.0	17.2	100.9	91	1
27	1/30/2007	FL	N 1807025 E 6670200	N	569.0	570.0	20.2	97.1	87 **	1
28	1/30/2007	FL	Retest of No 27	N	569.0	570.0	18.2	102.1	92	1
29	1/30/2007	FL	N 1806820 E 6670095	N	567.0	568.0	17.6	102.5	92	1
30	1/30/2007	OG	N 1807050 E 6670005	N	564.0	570.0	16.2	96.9	86	2
31	1/30/2007	OG	N 1807135 E 6670245	N	563.0	571.0	16.0	97.5	86	2
32	1/30/2007	OG	N 1807095 E 6670450	N	565.0	571.0	15.9	97.0	86	2
33	1/30/2007	SZ	N 1807085 E 6670315	N	564.0	570.0	15.7	102.0	90	2
34	1/30/2007	SZ	N 1807085 E 6670115	N	564.0	570.0	16.7	101.9	90	2
35	1/30/2007	FL	N 1807100 E 6670055	N	566.0	571.0	14.9	100.1	90	1
36	1/30/2007	FL	N 1807100 E 6670275	N	566.0	571.0	16.0	98.0	88 **	1
37	1/30/2007	FL	Retest of No 36	N	566.0	571.0	16.7	101.5	91	1
38	1/30/2007	FL	N 1807100 E 6670160	N	568.0	571.0	15.9	101.7	92	1
39	1/30/2007	FL	N 1807100 E 6670395	N	568.0	571.0	16.2	102.0	92	1
40	1/31/2007	OG	N 1806520 E 6670200	N	560.0	568.0	15.6	97.2	86	2



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Test No.	Date	Item ² Tested	Location	Test ³ Method	Test Elev. (ft)	F.G. Elev. (ft)	Moisture (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type
41	1/31/2007	OG	N 1806625 E 6670345	N	561.0	570.0	16.2	96.9	86	2
42	1/31/2007	OG	N 1806605 E 6670460	N	562.0	568.0	16.7	98.5	87	2
43	1/31/2007	SZ	N 1806580 E 6670235	N	560.0	568.0	15.9	102.1	90	2
44	1/31/2007	SZ	N 1806580 E 6670365	N	560.0	569.0	16.2	101.9	90	2
45	1/31/2007	OG	N 1807425 E 6670020	N	564.0	574.0	14.7	96.7	86	2
46	1/31/2007	OG	N 1807445 E 6670130	N	564.0	574.0	15.6	97.2	86	2
47	1/31/2007	OG	N 1807435 E 6670235	N	563.0	574.0	15.3	97.9	87	2
48	1/31/2007	SZ	N 1807490 E 6670135	N	564.0	574.0	16.2	101.9	90	2
49	1/31/2007	SZ	N 1807370 E 6670130	N	563.0	573.0	16.7	101.9	90	2
50	1/31/2007	FL	N 1807380 E 6670045	N	566.0	573.0	13.4	104.1	92	4
51	1/31/2007	FL	N 1807475 E 6670125	N	568.0	574.0	13.7	102.7	91	4
52	1/31/2007	FL	N 1807390 E 6670215	N	570.0	573.0	14.8	103.9	92	4
53	1/31/2007	FL	N 1807430 E 6670315	N	572.0	574.0	13.8	103.5	92	4
54	1/31/2007	FL	N 1807280 E 6670325	N	570.0	572.0	14.5	104.7	93	4
55	1/31/2007	FL	N 1806610 E 6670295	N	562.0	569.0	13.9	105.5	93	4
56	1/31/2007	FL	N 1806645 E 6670455	N	565.0	569.0	14.5	105.7	94	4
57	1/31/2007	FL	N 1806570 E 6670195	N	562.0	565.0	14.7	105.7	94	4
58	1/31/2007	FL	N 1806570 E 6670195	N	562.0	565.0	14.1	104.9	93	4
59	1/31/2007	FL	N 1806545 E 6670240	N	564.0	569.0	13.9	103.5	92	4
60	2/1/2007	OG	N 1807155 E 6670005	N	563.0	572.0	17.7	97.9	85	3
61	2/1/2007	OG	N 1807250 E 6670125	N	563.0	573.0	16.7	98.1	85	3
62	2/1/2007	OG	N 1807345 E 6670210	N	563.0	573.0	17.8	97.8	85	3
63	2/1/2007	SZ	N 1807330 E 6670015	N	563.0	573.0	16.2	103.9	90	3
64	2/1/2007	SZ	N 1807190 E 6670210	N	563.0	572.0	15.9	104.3	91	3
65	2/1/2007	FL	N 1807220 E 6670020	N	565.0	573.0	13.0	102.5	91	2
66	2/1/2007	FL	N 1807155 E 6670110	N	565.0	572.0	13.9	103.7	92	2
67	2/1/2007	FL	N 1807260 E 6670225	N	565.0	572.0	13.5	103.9	92	2
68	2/1/2007	FL	N 1807453 E 6670171	N	567.8	574.0	14.3	106.8	95	2
69	2/1/2007	FL	N 1807310 E 6670138	N	566.1	573.0	13.9	104.7	93	2
70	2/1/2007	OG	N 1806450 E 6670045	N	560.0	565.0	16.9	99.0	88	4
71	2/1/2007	OG	N 1806495 E 6670275	N	559.0	569.0	15.7	96.9	86	4
72	2/1/2007	OG	N 1806575 E 6670505	N	561.0	569.0	16.2	97.5	86	4
73	2/1/2007	SZ	N 1806500 E 6670165	N	560.0	565.0	15.5	102.9	91	4
74	2/1/2007	SZ	N 1806445 E 6670065	N	559.0	567.5	17.0	101.7	90	4
75	2/1/2007	FL	N 1806435 E 6670095	N	560.0	567.0	16.2	101.7	90	4
76	2/1/2007	FL	N 1806495 E 6670425	N	561.0	567.0	16.7	102.5	91	4
77	2/1/2007	FL	N 1806515 E 6670355	N	561.0	567.0	15.9	101.9	90	4
78	2/1/2007	FL	N 1806565 E 6670490	N	562.0	568.0	16.4	101.9	90	4
79	2/1/2007	FL	N 1806585 E 6670320	N	566.0	570.0	17.2	101.7	90	4
80	2/2/2007	OG	N 1806675 E 6670335	N	560.0	570.0	17.1	97.9	87	4



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Test No.	Date	Item ² Tested	Location	Test ³ Method	Test Elev. (ft)	F.G. Elev. (ft)	Moisture (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type
81	2/2/2007	OG	N 1806480 E 6669970	N	560.0	568.0	16.7	98.1	87	4
82	2/2/2007	OG	N 1807365 E 6669965	N	563.0	574.0	17.2	96.9	86	4
83	2/2/2007	SZ	N 1806700 E 6670140	N	562.0	568.0	16.5	102.0	90	4
84	2/2/2007	SZ	N 1806870 E 6668945	N	561.0	568.0	15.9	101.7	90	4
85	2/8/2007	FL	N 1806730 E 6670315	N	562.0	570.0	14.4	102.0	92	1
86	2/8/2007	FL	N 1806650 E 6670245	N	562.0	569.0	14.1	99.1	89 **	1
87	2/8/2007	FL	Retest of No 86	N	562.0	569.0	14.9	101.2	91	1
88	2/8/2007	FL	N 1806480 E 6669980	N	562.0	569.0	16.4	100.1	90	1
89	2/8/2007	FL	N 1807150 E 6669945	N	562.0	572.0	14.7	103.4	93	1
90	2/8/2007	FL	N 1807425 E 6669970	N	566.0	575.0	12.2	97.9	87 **	2
91	2/8/2007	FL	Retest of No 90	N	566.0	575.0	15.1	102.9	91	2
92	2/8/2007	FL	N 1807290 E 6670020	N	566.0	573.0	13.9	104.2	92	2
93	2/8/2007	FL	N 1807065 E 6669985	N	566.0	571.0	15.7	103.0	91	2
94	2/8/2007	FL	N 1806780 E 6669980	N	567.0	568.0	15.4	102.9	91	2
95	2/8/2007	FL	N 1806660 E 6670300	N	562.0	568.0	16.5	103.5	90	3
96	2/8/2007	FL	N 1806665 E 6669945	N	567.0	569.0	16.7	103.2	90	3
97	2/8/2007	FL	Retest of No 96	N	562.0	569.0	16.8	105.3	92	3
98	2/8/2007	FL	N 1807220 E 6669950	N	564.0	573.0	15.3	107.0	93	3
99	2/8/2007	FL	N 1807205 E 6670150	N	567.0	573.0	16.8	104.9	91	3
100	2/9/2007	FL	N 1807340 E 6669965	N	568.0	574.0	13.1	98.2	87 **	4
101	2/9/2007	FL	Retest of No 100	N	568.0	574.0	13.9	102.1	90	4
102	2/9/2007	FL	N 1807155 E 6670315	N	567.0	572.0	13.9	101.7	90	4
103	2/9/2007	FL	N 1807215 E 6670075	N	567.0	573.0	13.8	102.5	91	4
104	2/9/2007	FL	N 1807125 E 6669970	N	565.0	572.0	14.7	102.6	91	4
105	2/9/2007	FL	N 1807265 E 6670275	N	569.0	573.0	13.9	102.7	91	4
106	2/9/2007	FL	N 1807440 E 6670395	N	573.0	575.0	14.7	101.9	90	4
107	2/9/2007	FL	N 1807320 E 6670075	N	568.0	574.0	13.2	102.5	91	4
108	2/9/2007	OG	N 1807545 E 6669930	N	565.0	576.0	12.9	100.0	88	2
109	2/9/2007	OG	N 1807875 E 6669925	N	567.0	579.0	13.5	97.9	87	2
110	2/9/2007	OG	N 1808375 E 6669925	N	572.0	581.0	14.7	99.9	88	2
111	2/9/2007	SZ	N 1807735 E 6669935	N	566.0	578.0	13.7	104.2	92	2
112	2/9/2007	SZ	N 1808100 E 6669935	N	571.0	579.0	15.0	103.6	92	2
113	2/9/2007	FL	N 1807450 E 6669955	N	566.0	575.0	9.0	108.5	96	2
114	2/9/2007	FL	Retest of No 113	N	566.0	575.0	13.7	108.9	96	2
115	2/9/2007	FL	N 1807070 E 6669935	N	567.0	577.0	13.4	109.0	96	2
116	2/9/2007	FL	N 1807975 E 6669935	N	569.0	577.0	15.2	108.3	96	2
117	2/9/2007	FL	N 1807285 E 6669930	N	573.0	580.0	14.4	108.0	96	2
118	2/9/2007	FL	N 1808445 E 6669935	N	575.0	580.0	12.1	106.9	95	2
119	2/9/2007	FL	Retest of No 118	N	575.0	580.0	13.7	107.5	95	2
120	2/13/2007	FL	N 1806690 E 6670070	N	564.0	568.0	14.8	103.7	90	3



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Test No.	Date	Item ² Tested	Location	Test ³ Method	Test Elev. (ft)	F.G. Elev. (ft)	Moisture (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type
121	2/13/2007	FL	N 1806680 E 6670245	N	564.0	569.0	15.8	103.5	90	3
122	2/13/2007	FL	N 1806565 E 6670290	N	564.0	568.0	15.4	104.0	90	3
123	2/13/2007	FL	N 1806550 E 6670440	N	565.0	570.0	15.8	103.4	90	3
124	2/13/2007	FL	Retest of No 123	N	565.0	570.0	15.1	104.8	91	3
125	2/13/2007	FL	N 1806520 E 6670305	N	563.0	569.6	16.8	110.0	96	3
126	2/13/2007	FL	N 1806445 E 6669960	N	563.0	568.7	15.7	109.5	95	3
127	2/13/2007	FL	N 1806735 E 6669945	N	563.0	568.0	17.5	100.8	88 **	3
128	2/13/2007	FL	Retest of No 127	N	563.0	568.0	14.8	106.9	93	3
129	2/13/2007	FL	N 1807075 E 6669940	N	565.0	571.0	13.6	107.6	94	3
130	2/13/2007	FL	N 1806975 E 6670050	N	566.0	570.0	13.8	108.8	95	3
131	2/13/2007	FL	N 1808965 E 6670380	N	567.0	570.0	13.5	108.6	94	3
132	2/13/2007	FL	N 1806860 E 6670240	N	567.0	569.0	13.7	108.2	94	3
133	2/13/2007	FL	N 1806770 E 6670345	N	568.0	570.0	16.2	106.0	92	3
134	2/13/2007	FL	N 1806740 E 6670010	N	567.0	568.0	16.8	105.1	91	3
135	2/13/2007	FL	N 1807525 E 6669935	N	567.0	576.0	13.7	105.3	93	2
136	2/13/2007	FL	N 1807830 E 6669940	N	570.0	575.0	13.4	104.8	93	2
137	2/13/2007	FL	N 1808245 E 6669930	N	573.0	580.0	13.3	104.7	93	2
138	2/13/2007	FL	N 1807625 E 6669935	N	570.0	577.0	13.8	104.4	92	2
139	2/13/2007	FL	N 1808080 E 6669930	N	573.0	578.0	13.5	104.7	93	2
140	2/14/2007	FL	N 1807405 E 6689950	N	570.0	575.0	16.1	105.4	93	4
141	2/14/2007	FL	N 1807200 E 6669955	N	569.0	572.0	15.0	108.5	96	4
142	2/14/2007	FL	N 1806835 E 6669945	N	567.0	569.0	17.5	102.0	90	4
143	2/14/2007	FL	N 1806675 E 6670015	N	566.0	568.0	16.7	102.1	90	4
144	2/14/2007	FL	N 1806620 E 6670230	N	566.0	569.0	17.0	104.4	92	4
145	2/14/2007	FL	N 1806715 E 6670250	N	568.0	569.0	18.3	100.1	89 **	4
146	2/14/2007	FL	Retest of No 145	N	568.0	569.0	17.0	105.1	93	4
147	2/14/2007	FL	N 1806695 E 6670415	N	568.0	570.0	15.2	99.8	88 **	4
148	2/14/2007	FL	Retest of No 147	N	568.0	570.0	15.8	106.0	94	4
149	2/14/2007	FL	N 1806610 E 6670415	N	568.0	570.0	17.0	102.8	91	4
150	2/16/2007	FL	N 1806950 E 6669945	N	569.0	570.0	14.9	102.8	91	4
151	2/16/2007	FL	N 1807290 E 6670105	N	571.0	573.0	15.8	100.9	89 **	4
152	2/16/2007	FL	Retest of No 151	N	571.0	573.0	14.4	102.3	91	4
153	2/16/2007	FL	N 1807790 E 6669935	N	576.0	578.0	14.8	104.0	92	4
154	2/16/2007	FL	N 1808135 E 6669930	N	577.0	579.0	14.7	102.9	91	4
155	3/9/2007	FL	N 1807435 E 6670070	N	573.0	575.0	14.7	102.5	91	4
156	3/9/2007	FL	N 1807275 E 6670065	N	571.0	573.0	15.9	103.9	92	4
157	3/9/2007	FL	N 1807145 E 6670070	N	570.0	572.0	14.9	104.1	92	4
158	3/9/2007	FL	N 1806935 E 6670035	N	568.0	572.0	15.2	104.3	92	4
159	3/9/2007	FL	N 1806775 E 6669950	N	566.0	568.0	14.7	103.7	92	4
160	3/30/2007	FG	Lot 1 N 1808430 E 6670210	N	580.0	580.0	11.1	101.7	91	8



GEOTECHNICAL CONSULTANTS

Lewis Operating Corp
 Tracts 17571 and 17626
 Chino, CA
 April 20, 2007

IN-PLACE DENSITIES

Test No.	Date	Item ² Tested	Location	Test ³ Method	Test Elev. (ft)	F.G. Elev. (ft)	Moisture (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type
161	3/30/2007	FG	Lot 2 N 1808340 E 6670210	N	579.8	578.8	10.9	102.6	92	8
162	3/30/2007	FG	Lot 3 N 1808320 E 6670190	N	579.4	579.4	11.7	101.8	91	8
163	3/30/2007	FG	Lot 4 N 1808240 E 6670190	N	579.2	579.2	11.1	100.9	90	8
164	3/30/2007	FG	Lot 5 N 1808250 E 6670215	N	579.0	579.0	11.0	101.8	91	8
165	3/30/2007	FG	Lot 6 N 1808220 E 6670210	N	578.8	578.8	11.1	101.7	91	8
166	3/30/2007	FG	Lot 7 N 1808120 E 6670195	N	578.2	578.2	11.7	102.1	91	8
167	3/30/2007	FG	Lot 8 N 1808080 E 6670210	N	577.8	577.8	10.9	100.8	90	8
168	3/30/2007	FG	Lot 9 N 180850 E 6670210	N	577.8	577.8	12.1	102.6	92	8
169	3/30/2007	FG	Lot 10 N 1808015 E 6670215	N	577.6	577.6	11.5	101.9	91	8
170	3/30/2007	FG	Lot 11 N 1807975 E 6670190	N	577.4	577.4	11.9	102.3	91	8
171	4/2/2007	FG	Lot 12 N 1807965 E 6670305	N	577.9	577.9	11.7	100.0	89 **	8
172	4/2/2007	FG	Retest of No 171	N	577.9	577.9	12.1	101.7	91	8
173	4/2/2007	FG	Lot 13 N 1808005 E 6670365	N	578.1	578.1	11.9	102.0	91	8
174	4/2/2007	FG	Lot 14 N 1808035 E 6670305	N	578.3	578.3	11.7	98.9	88 **	8
175	4/2/2007	FG	Retest of No 174	N	578.3	578.3	12.7	101.0	90	8
176	4/2/2007	FG	Lot 15 N 1808070 E 6670365	N	578.5	578.5	11.7	101.6	91	8
177	4/2/2007	FG	Lot 16 N 1808105 E 6670305	N	578.7	578.7	8.9	97.6	87 **	8
178	4/2/2007	FG	Retest of No 177	N	578.7	578.7	11.2	101.8	91	8
179	4/2/2007	FG	Lot 17 N 1808215 E 6670355	N	579.0	579.0	12.1	102.9	92	8
180	4/2/2007	FG	Lot 18 N 1808250 E 6670305	N	579.3	579.3	11.7	102.1	91	8
181	4/2/2007	FG	Lot 19 N 1808285 E 6670360	N	579.5	579.5	12.1	102.5	92	8
182	4/2/2007	FG	Lot 20 N 1808315 E 6670305	N	579.7	579.7	11.9	102.1	91	8
183	4/2/2007	FG	Lot 21 N 1808350 E 6670360	N	579.9	579.9	11.7	101.9	91	8
184	4/2/2007	FG	Lot 22 N 1808380 E 6670305	N	580.1	580.1	9.7	99.9	89 **	8
185	4/2/2007	FG	Retest of No 184	N	580.1	580.1	11.2	101.5	91	8
186	4/2/2007	FG	Lot 23 N 1808420 E 6670350	N	580.3	580.3	15.3	101.2	91	9
187	4/3/2007	FG	Lot 24 N 1808430 E 6670565	N	580.1	580.1	10.7	99.9	89 **	8
188	4/3/2007	FG	Retest of No 187	N	580.1	580.1	11.7	101.0	90	8
189	4/3/2007	FG	Lot 25 N 1808395 E 6670545	N	580.0	580.0	12.1	102.7	92	8
190	4/3/2007	FG	Lot 26 N 1808365 E 6670565	N	579.8	579.8	12.5	102.9	92	8
191	4/3/2007	FG	Lot 27 N 1808330 E 6670545	N	579.6	579.6	11.9	102.5	92	8
192	4/3/2007	FG	Lot 28 N 1808295 E 6670565	N	579.4	579.4	11.2	101.6	91	8
193	4/3/2007	FG	Lot 29 N 1808265 E 6670545	N	579.2	579.2	11.7	101.1	90	8
194	4/3/2007	FG	Lot 30 N 1808230 E 6670565	N	579.0	579.0	12.1	102.9	92	8
195	4/3/2007	FG	Lot 46 N 1808225 E 6670670	N	577.8	577.8	12.5	103.1	92	8
196	4/3/2007	FG	Lot 47 N 1808265 E 6670650	N	579.0	579.0	11.9	102.7	92	8
197	4/3/2007	FG	Lot 48 N 1808295 E 6670665	N	579.2	579.2	14.2	102.5	92	9
198	4/3/2007	FG	Lot 49 N 1808330 E 6670645	N	579.4	579.4	14.7	101.7	92	9
199	4/3/2007	FG	Lot 50 N 1808365 E 6670665	N	579.6	579.6	15.1	99.0	89 **	9
200	4/3/2007	FG	Retest of No 199	N	579.6	579.6	15.3	101.7	92	9



GEOTECHNICAL CONSULTANTS

Lewis Operating Corp
 Tracts 17571 and 17626
 Chino, CA
 April 20, 2007

IN-PLACE DENSITIES

Test No.	Date	Item ² Tested	Location	Test ³ Method	Test Elev. (ft)	F.G. Elev. (ft)	Moisture (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type
201	4/3/2007	FG	Lot 51 N 1808400 E 6670650	N	579.8	579.8	14.9	102.6	92	9
202	4/6/2007	FG	Lot 31	N	578.8	578.8	14.5	106.2	90	5
203	4/6/2007	FG	Lot 32	N	578.6	578.6	13.2	107.4	91	5
204	4/6/2007	FG	Lot 33	N	578.4	578.4	15.1	109.7	93	5
205	4/6/2007	FG	Lot 34	N	578.2	578.2	13.8	106.9	91	5
206	4/6/2007	FG	Lot 35	N	578.1	578.1	14.1	107.9	91	5
207	4/6/2007	FG	Lot 36	N	577.8	577.8	15.0	108.6	92	5
208	4/6/2007	FG	Lot 37	N	578.0	578.0	13.4	109.2	93	5
209	4/6/2007	FG	Lot 38	N	578.2	578.2	13.9	108.2	92	5
210	4/6/2007	FG	Lot 39	N	578.4	578.4	14.3	107.6	91	5
211	4/6/2007	FG	Lot 40	N	578.6	578.6	14.7	106.9	91	5
212	4/6/2007	FG	Lot 41	N	579.2	579.2	15.4	111.5	93	7
213	4/6/2007	FG	Lot 42	N	579.0	579.0	14.3	109.4	91	7
214	4/6/2007	FG	Lot 43	N	578.8	578.8	16.1	110.6	92	7
215	4/6/2007	FG	Lot 44	N	578.7	578.7	15.8	108.8	91	7
216	4/6/2007	FG	Lot 45	N	578.5	578.5	14.9	109.7	91	7
217	4/10/2007	FG	Lot 52 N 1808405 E 6670805	N	581.1	581.1	11.5	101.5	91	8
218	4/10/2007	FG	Lot 53 N 1808360 E 6670790	N	580.9	580.9	11.0	101.1	90	8
219	4/10/2007	FG	Lot 54 N 1808330 E 6670805	N	580.7	580.7	12.1	102.1	91	8
220	4/10/2007	FG	Lot 55 N 1808300 E 6670785	N	580.5	580.5	12.7	102.9	92	8
221	4/10/2007	FG	Lot 56 N 1808265 E 6670805	N	580.3	580.3	11.9	102.0	91	8
222	4/10/2007	FG	Lot 57 N 1808230 E 6670790	N	580.1	580.1	11.3	101.9	91	8
223	4/10/2007	FG	Lot 58 N 1808235 E 6670915	N	580.3	580.3	11.5	102.9	92	8
224	4/10/2007	FG	Lot 59 N 1808270 E 6670890	N	580.5	580.5	11.5	102.5	92	8
225	4/10/2007	FG	Lot 60 N 1808300 E 6670915	N	580.7	580.7	11.9	102.1	91	8
226	4/10/2007	FG	Lot 61 N 1808335 E 6670895	N	580.9	580.9	12.1	102.9	92	8
227	4/10/2007	FG	Lot 62 N 1808365 E 6670915	N	581.1	581.1	11.7	102.1	91	8
228	4/10/2007	FG	Lot 63 N 1808400 E 6670895	N	581.3	581.3	12.1	102.5	92	8
229	4/10/2007	FG	Lot 64 N 1808435 E 6670915	N	581.5	581.5	11.9	102.9	92	8

²Item Tested:

OG - Original Ground
 FL - Fill

SZ - Scarified zone
 FG - Finish grade

³Test Method:

S - ASTM D1556 (Density of Soil In-Place by Sand Cone Method)
 N - ASTM D2922 (Density of Soil In-Place by Direct Transmission Nuclear Method)

**Areas represented by these tests received additional compactive effort and were retested.

APPENDIX C

**LABORATORY
TEST RESULTS**

Lewis Operating Corp
Tracts 17571 and 17626
Chino, CA
April 20, 2007

APPENDIX C**LABORATORY TEST RESULTS**SOLUBLE SULFATES

Test Method: Hach DR3 (Calcium Phosphate Extractable)

Sample Location	Soluble Sulfate (ppm)	Sample Location	Soluble Sulfate (ppm)
Lot 2	114	Lot 34	108
Lot 4	125	Lot 36	121
Lot 6	139	Lot 38	123
Lot 8	111	Lot 40	137
Lot 10	131	Lot 42	129
Lot 12	112	Lot 44	106
Lot 14	110	Lot 46	118
Lot 16	113	Lot 48	109
Lot 18	123	Lot 52	110
Lot 20	103	Lot 54	103
Lot 22	116	Lot 56	100
Lot 24	121	Lot 58	123
Lot 26	110	Lot 60	114
Lot 28	115	Lot 62	130
Lot 30	136	Lot 64	99
Lot 32	120		

Lewis Operating Corp
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EXPANSION TEST

Test Method: U.B.C. Standard No. 18-2

Sample Number	Molding Moisture Content (Percent)	Final Moisture Content (Percent)	Initial Dry Density (lbs/ft ³)	Expansion Index	Expansion Classification
Lot 1	10.0	26.8	110.3	4	Very low
Lot 3	9.5	26.5	107.4	8	Very low
Lot 5	5.8	30.1	115.8	11	Very low
Lot 7	8.9	32.4	109.0	16	Very low
Lot 9	7.4	26.9	108.2	0	Very low
Lot 11	5.8	25.4	108.2	1	Very low
Lot 13	7.5	19.7	98.7	7	Very low
Lot 15	8.3	22.3	91.8	12	Very low
Lot 17	9.1	23.6	92.9	14	Very low
Lot 19	10.1	33.8	83.0	2	Very low
Lot 21	9.9	27.9	97.2	18	Very low
Lot 23	10.9	30.7	86.3	8	Very low
Lot 25	12.4	19.8	105.4	14	Very low
Lot 27	14.7	17.4	100.7	14	Very low
Lot 29	13.2	19.6	103.6	9	Very low
Lot 31	14.8	20.8	98.4	9	Very low
Lot 33	13.0	21.1	98.5	3	Very low
Lot 35	10.8	22.1	107.0	10	Very low
Lot 37	5.3	22.3	101.8	15	Very low
Lot 39	5.7	25.5	98.5	3	Very low
Lot 41	5.5	23.3	100.4	7	Very low
Lot 43	5.2	23.1	101.7	9	Very low
Lot 45	5.4	27.0	102.3	10	Very low
Lot 47	6.8	27.6	95.8	10	Very low



GEOTECHNICAL CONSULTANTS

Lewis Operating Corp
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Sample Number	Molding Moisture Content (Percent)	Final Moisture Content (Percent)	Initial Dry Density (lbs/ft ³)	Expansion Index	Expansion Classification
Lot 49	6.6	28.8	93.6	3	Very low
Lot 51	4.0	24.0	104.6	8	Very low
Lot 53	3.5	21.6	95.2	8	Very low
Lot 55	5.5	21.8	106.3	13	Very low
Lot 57	6.2	25.3	105.3	12	Very low
Lot 59	10.6	22.6	102.9	5	Very low
Lot 61	10.7	20.1	101.9	8	Very low
Lot 63	12.2	23.6	94.7	6	Very low

APPENDIX D

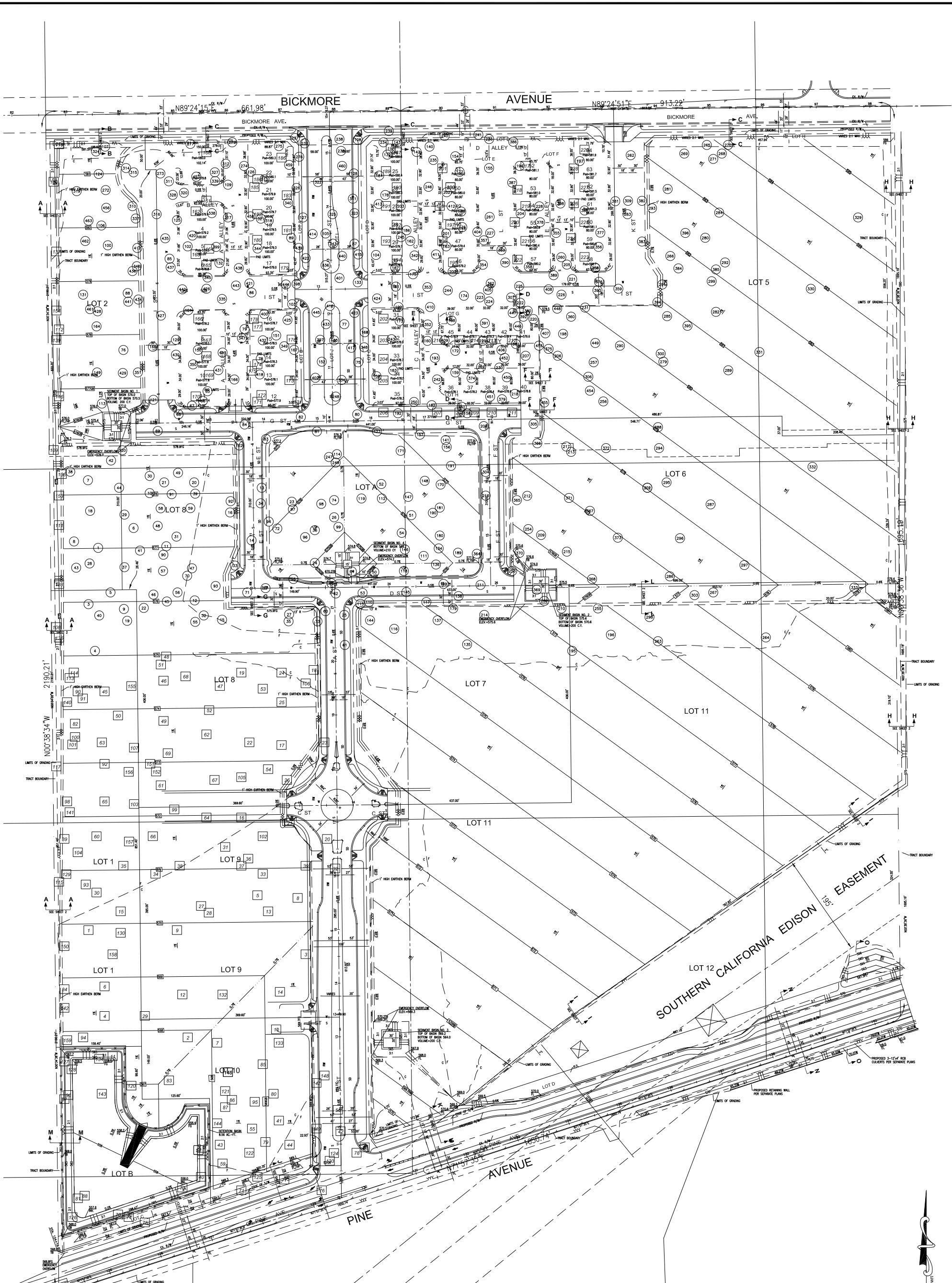
REFERENCES

Lewis Operating Corp
Tracts 17571 and 17626
Chino, CA
April 20, 2007

APPENDIX D

REFERENCES

1. International Conference of Building Officials, Uniform Building Code, 1997 Edition.
2. City of Chino, Guidelines for Phase I Environmental Assessment for Methane Gas Potential.
3. L.D King, Plot and Rough Grading Plan for Tract No. 17571 and 17625, Chino, CA.
4. RMA Group Inc., 2000, RMA Job No.: 00-183-01, Geotechnical Investigation dated December 11, 2000.
5. RMA Group, 2003, Review and Update of Geotechnical Investigation Report, Lot 1 of Tract 16418, (Portion of the former Van Vliet Property at 7565 Bickmore Ave), Chino, CA, dated June 10, 2003, Project No. 02-268-01.
6. RMA Group, 2003, Review and Update of Geotechnical Investigation Report, Lot 2 of Tract 16418, (Portion of the former Van Vliet Property at 7565 Bickmore Ave), Chino, CA, dated June 10, 2003, Project No. 02-268-01.
7. RMA Group, 2003, Review and Update of Geotechnical Investigation Report, Lot 3 of Tract 16418, (Portion of the former Van Vliet Property at 7565 Bickmore Ave), Chino, CA, dated June 10, 2003, Project No. 02-268-01.
8. RMA Group, 2003, Review and Update of Geotechnical Investigation Report, Lot 4 of Tract 16418, (Portion of the former Van Vliet Property at 7565 Bickmore Ave), Chino, CA, dated June 10, 2003, Project No. 02-268-01.
9. RMA Group, 2006, Update to Geotechnical Investigation, Van Vliet Dairy, Tracts 17571 and 17626, Chino, CA, dated October 13, 2006, Project No. 02-268-01.



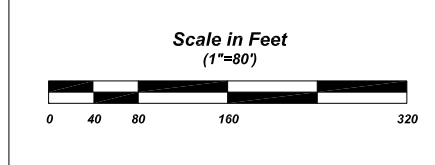
LEGEND

- ⊞ - Approximate Test Location RMA 2007
- ⊞ - Approximate Test Location RMA 2004



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DRAWN BY:
520SAB
 CHECKED BY:
 520DKR
 APPROVED BY:
 500LEP
 DATE:
 April, 2007

Test Location Map
 Van Vliet Including Tract 17626
 Phase 2 D
 Rincon Meadow E side between
 Bickmore & Pine Ave's
 Chino, CA

RMA JOB No.:
 06-238-01
 SHEET No.:
 1 OF 1
 PLATE No.:
1