COLORADO DEPARTMENT OF TRANSPORTATION REPORT ON CENTRAL LABORATORY TO REGION LAB INSPECTION This inspection is designed to cover apparatus and documentation used in CDOT Region Laboratories. Equipment was inspected according to applicable CDOT, ASTM and AASHTO specifications. Region Date Location Region personnel present during inspection Central Laboratory personnel present during inspection Name and title Name and title Rating Equip ID# (Y/N/NA) General Lab cleanliness & housekeeping? (Good/Fair/Poor) Equipment cleanliness & functionality? (Good/Fair/Poor) Region Quality Manual present, current & complete? (Y/N) Scales: Certified & level? (Y/N/NA) Ovens: Accurate or temperature corrected? (Y/N/NA) Thermometers: Certified or verified? (Y/N/NA) Sieves in good condition & within specification? (Y/N/NA) Sieving adequacy performed annually for coarse & fine aggregate? (Y/N/NA) Tester certifications present and complete? (Y/N) 10. Current CDOT Field Materials Manuals, Laboratory Manual of Test Procedures, & CDOT Forms? (Y/N/NA) Comments Equip ID# (Y/N/NA) **Aggregates** Applicable (Y/N) Rating 1. Aggregate splitter in good condition, correct size & number of openings? (Y/N/NA) 2. Coarse specific gravity equipment within specifications? (Y/N/NA): 3. Fine specific gravity equipment within specifications? (Y/N/NA) Sand equivalence equipment within specification? (Y/N/NA) L.A. Abrasion machine & Spheres within specification? (Y/N/NA) Fine Aggregate Angularity apparatus within specification? (Y/N/NA) Fine Aggregate Angularity cylinder calibrated & logged? (Y/N/NA) Lime wash water pressure set at 10 PSI? (Y/N/NA) 9. Micro Deval equipment within specification? (Y/N/NA) Comments

Con	crete Applicable (Y/ N)	Rating	Equip ID# (Y/N/NA)
1.	Curing tank at correct temperature? (Y/N/NA)		
	Recording thermometer present & accurate? (Y/N/NA)		
	Curing tank water saturated with lime? (Y/N/NA)		
	Curing tank water is being circulated? (Y/N/NA)		
	Curing tank water fully immerses specimens? (Y/N/NA)		
2.	Concrete testing equipment:		
	Air meter calibrated & accurate? (Y/N/NA)		
	Slump cone dimensions accurate? (Y/N/NA)		
	Strike off plate for unit weight within specification? (Y/N/NA)		
	Tamping rods and mallets within specification? (Y/N/NA)		
	Cylinder molds within specification & source documented? (Y/N/NA)		
	Beam molds within specification? (Y/N/NA)		
3.	Concrete compression machine:		
	Certified within the last 12 months? (Y/N/NA)		
	Platen & head meet specification? (Y/N/NA)		
	Compression head rotates & tilts freely at least 4° in any direction? (Y/N/NA)		
	Compression head inscribed concentric circles within specification? (Y/N/NA)		
	Condition of retainer rings within specification? (Y/N/NA)		
	Neoprene pad use logged? (Y/N/NA)		
	Neoprene pad's shore hardness recorded & meets specification? (Y/N/NA)		
	Beam apparatus within specification? (Y/N/NA)		
Cor	nments		

Asphalt Applicable (Y/ N)			Equip ID# (Y/N/NA)
1.	Square splitting pan for asphalt within specification? (Y/N/NA)		
	Square sided scoop for asphalt within specification?(Y/N/NA)		
2.	Maximum specific gravity (Rice) set up within specification? (Y/N/NA)		
	Manometer free of air? (Y/N/NA)		
	Pump oil free of water? (Y/N/NA)		
	Desiccating crystals free of water? (Y/N/NA)		
	Flasks calibrated and logged? (Y/N/NA)		
	Vacuum pump pressure at 28 ± 2 mm Hg? (Y/N/NA)		
3.	Bulk specific gravity equipment:		
	a. Tank at correct temperature? (Y/N/NA)		
	b. Suspension wire of small diameter? (Y/N/NA)		
4.	SuperPave compactor checked? (Y/N/NA)		
	Gyratory compactor angle checked with TMA? (Y/N/NA)		
5.	Gyratory compactor molds within specification? (Y/N/NA)		
6.	Gyratory ram head diameter & base plate within tolerance? (Y/N/NA)		
7.	Compression testing machine certified &/or checked within the last 12 months? (Y/N/NA)		
8.	Program correct for Stabilities & Lottmans? (Y/N/NA)		
9.	Ignition furnace has correct settings programmed? (Y/N/NA)		
10.	Freezer within specification? (Y/N/NA)		
11.	Incubator within specification? (Y/N/NA)		
12.	Water baths within specification? (Y/N/NA)		
13.	Stabilometer checked and within specification? (Y/N/NA)		
Cor	nments		

oil	,	Rating	Equip ID# (Y/N/N
1.	Compaction equipment:		
	Compaction base of sufficient mass? (Y/N/NA):		
	T99 manual rammer within specification? (Y/N/NA)		
	T99 mechanical hammer within specification? (Y/N/NA)		
	T180 manual hammer within specification? (Y/N/NA)		
	T180 mechanical hammer within specification? (Y/N/NA)		
	6" molds within specifications? (Y/N/NA)		
	4" molds within specifications? (Y/N/NA)		
	Straightedge (strike-off bars) within specifications? (Y/N/NA)		
2.	Atterberg Equipment:		
	Liquid limit device within specification? (Y/N/NA):		
	Grooving tool within specification? (Y/N/NA)		
3.	R-value equipment:		
	Kneading compactor calibrated at required intervals? (Y/N/NA)		
	Tamper foot meets dimensional limits? (Y/N/NA)		
	Molds, dimensions within specifications? (Y/N/NA)		
4.	Nuclear M/D gauges calibrated within 2 years & checked within 1 year? (Y/N/NA)		
5.	Sulfate test equipment:		
	Sulfate standard not expired & at proper concentration? (Y/N/NA)		
	Correction curve generated for current batch of BaCl &		
	not older than 6 months? (Y/N/NA)		
	Glass test vials clear & unclouded? (Y/N/NA)		
	Colorimeter set to correct program or proper colorimeter used? (Y/N/NA)		
	BaCl reagent not expired? (Y/N/NA)		
Со	mments		

ASPHALT LAB INSPECTION - FORM 520

REGION	
LOCATION	
DATE	

Asphalt Laboratory Equipment			sed	Applicable
Procedure	Description	Yes	No	(□ Y/ □ N)
G-1	Balance Verication of Calibration			□ Y/ □ N)
G-2	Oven Check			ı □ Y/ □ N)
HMA-1	Standardization of Low Temperature Oven and Freezer			(
HMA-2	Superpave Gyratory Compactor Mold Check			(□ Y/ □ N)
HMA-3	SuperPave Gyratory Compactor Ram Head Check			(□ Y/ □ N)
HMA-4	Troxler Gyratory Compactor True Mold Angle Check			(□ Y/ □ N)
HMA-5	Troxler Gyratory Compactor Pressure Check			(□ Y/ □ N)
HMA-6	Troxler Gyratory Compactor CDI Angle Check			(□ Y/ □ N)
HMA-7	Troxler Gyratory Compactor Height Calibration & Rotation Check			(□ Y/ □ N)
HMA-8	Maximum Specific Gravity and Lottman System Check			(□ Y/ □ N)
HMA-9	Standardization of Water Baths			(□ Y/ □ N)
HMA-10	Stabilometer Check			(□ Y/ □ N)
HMA-11	United Press Load Cell Calibration Check			(□ Y/ □ N)
HMA-12	Troxler Gyratory Compactor Region Load Cell Pressure Check			(□ Y/ □ N)

Comments