



San Diego Geographic Information Source

Board of Directors Meeting Minutes

This notice is given in accordance with the provisions of California Government Code section 54956.

Date: Thursday May 14, 2009

Time: 4:15 pm – 5:15 pm

Place: City of San Diego Administration Building
202 C Street, 5th Floor
San Diego, CA 92101

Meeting called to Order: 4:15 pm

Meeting Adjourned: 5:00 pm

Board of Directors Present:

- Chandra Waller, County of San Diego
- William Anderson, City of San Diego

Management Committee Members Present:

- Phyllis Chapin, City of San Diego Representative
- Ross Martin, County of San Diego Representative

Others Present:

- Brad Lind, SDDPC Program Manager for SanGIS
- Tim Sutherland, SanDAG
- Steve Hossack, SanDAG
- Dave Lindsay, County of San Diego, LUEG

MEETING MINUTES

Review of Minutes from Previous Meeting(s)

Minutes from the Board of Directors meeting of April 15, 2009 were reviewed. A motion was made and seconded to approve the minutes as submitted. The motion was approved and the minutes were approved.

Public Comment

No public comments were received.

Information and Discussion:**1. Current financial status**

Ross presented the GL017 financial report for the month ending April 30, 2009 and reported that according to the SanGIS auditor, there is \$359,589 left in the current year budget with one last invoice from the County outstanding. Ross reported that it is expected there will be on the order of \$150,000 of excess revenue left at the end of the Fiscal Year 2009.

The Board agreed that any excess budget remaining for FY2009 would be carried over to the SanGIS budget for FY2010 and used as contingency for FY2010 expenditures.

2. SanGIS FY2008 Audit Status

Ross reported that the Auditing firm (Macias, Gini, and O'Connell) is in direct communication with the County Auditor to clear up final questions. The Management Discussion and Analysis section (MDA) is being completed by Ross. Macias, Gini, and O'Connell are reporting that they expect the final report should be done by the end of May or the first part of June.

3. Action Item Updates

Brad reported on the status of the Service Level Agreement development and described the general format and the documents that are being used as the basis. The Board discussed how certain items would be covered in the SLA and it was noted that SanGIS is not a "24 by 7 by 365" business and that this should be clearly indicated in the SLA. The schedule is still to have the draft agreement completed in time for the June Board meeting. Chandra requested that the draft version be sent for review as soon as it is available and not wait for the Board package to be published.

Ross discussed the office space lease arrangements being made with the County Department of General Services (DGS). Though there is a "handshake" agreement with DGS there is no written agreement yet and DGS is still waiting for the Registrar of Voters to officially notify them that they are vacating the space. Ross also reported that there is a server room available at the County Operations Center for SanGIS use and that a separate room will not have to be constructed in the new space. The server room is a LEUG-owned space that SanGIS can use and has all the environmental controls necessary for the infrastructure including proper power connections, air conditioning and a raised floor. Ross and Brad reported that the current office space lease has been examined and that there are no provisions for early termination in the document. The Board agreed that it would be okay to discuss options with SanGIS counsel before talking to the current lease holder.

4. Recent SanGIS Accomplishments

Phyllis reported that SanGIS has replaced another server (the outside DNS server) with a service from AT&T at no additional cost and that the number of SanGIS servers is now down to 7 (from 14).

SanGIS reports that work is continuing at a steady rate to add lots to the land base. Approximately 59% of the City of San Diego is completed and about 50% of the County areas. It was reported that there is no set time frame to finish this work but rather that it is ongoing data quality updates being done as the workload allows.

Other accomplishments reported include cross training for front counter duties by the land base maintenance staff; National Hydrography Dataset steward training completed by USGS; part time accounting staff has started regular weekly hours at SanGIS and has started SanGIS using Intuit Quickbooks Pro to help manage finances.

5. Other Items

No other items were brought before or by the Board for discussion.

Requests for Action:

6. SanDAG Memorandum of Understanding (MOU)

The Board discussed the SanGIS-SanDAG MOU for data sharing and public mapping functions. The Management Committee clarified sections as requested by the Board. Specifically it was noted that the agreement, once it became effective, would be reviewed at the one year anniversary to determine what, if any changes, would be made to the agreement.

SanDAG staff were present and discussed the status of SanDAG as a voting Board member for SanGIS. The SanDAG staff noted that SanDAG has not budgeted for participation in SanGIS for the next fiscal year (FY2010) but that they would still like to participate in Board meetings as a non-voting member. Mr. Sutherland said he will be bringing up the issue of budget for the 2011 fiscal year with his management.

Phyllis reported that the City Attorney's office has informed her that they have comments on the MOU that need to be considered before signing. Those comments have not yet been provided to her for review.

The Board directed the Management Committee to work out a consensus agreement with SanDAG for the final MOU and bring it to the next Board of Directors meeting for review and/or approval.

SUMMARY OF ACTION ITEMS

1. Brad – send draft version of SLA to Board members as soon as it is available in draft form.
2. Management Committee – work out consensus agreement with SanDAG on MOU and present to Board at the next meeting in June.

Minutes prepared by:

Brad Lind

June 1, 2009

These minutes are approved by:

Signature

Date:

William Anderson
SanGIS Board Member, City of San Diego
Chairman of the Board



6-11-09

EXPENDITURE AND REVENUE BY PERIOD FOR OBJECT AND ACCOUNT -

Report Period April 09

ORG = 91170 SanGIS - Derived from GL-017 - James Bryant COSD Auditor

EXPENDITURES	Year to Date		Paid to Date										Total to Date	% Difference to Date	Estimated Cost to Complete	Remaining Budget Sum
	Budgeted	July	August	September	October	November	December	January	February	March	April					
SALARIES EE510	\$850,242	\$3,818	\$35,401	\$10,865	\$10,902	\$6,547	\$112,374	\$13,379	\$227,823	\$9,525	\$124,272	\$554,906	65%	\$251,336	\$295,336	
SERVICES & SUPPLIES EE520	\$587,151	\$13,822	\$25,914	\$29,344	\$62,852	\$23,085	\$69,412	\$35,849	\$24,063	\$50,265	\$33,628	\$368,234	63%	\$205,783	\$218,917	
OTHER CHARGES EE530 (Credit Card - Equipment Depreciation)	\$1,000	\$2,480	\$2,478	\$2,355	\$2,176	\$2,138	\$2,204	\$1,387	\$1,335	\$1,380	\$1,368	\$19,301	1930%	\$4,245	-\$18,301	
FIXED ASSETS (Communication Equipment)	\$10,000	\$0	\$530	\$4,849	\$0	\$6	\$1,682	\$0	\$0	\$79	\$0	\$7,146	71%	\$2,854	\$2,854	
Subtotal	\$1,448,393	\$20,120	\$64,323	\$47,413	\$75,930	\$31,776	\$185,672	\$50,615	\$253,221	\$61,249	\$159,268	\$949,587	66%	\$464,218	\$498,806	
RESERVES (Contingency)	\$137,399											\$0	0%		\$137,399	
TOTAL EXPENDITURE	\$1,585,792											\$949,587	60%		\$636,205	
													Total to Date	Estimated Revenue		
INTERESTS	\$11,000	\$0	\$0	\$0	\$3,349	\$0	\$0	\$3,487	\$0	\$0	\$1,985	\$8,821	80%	\$2,179	\$2,179	
CITY PAYMENTS	\$752,830	\$0	\$0	\$250,000	\$0	\$0	\$250,000	\$0	\$0	\$0	\$252,830	\$752,830	100%	\$0	\$0	
COUNTY PAYMENTS	\$752,830	\$250,000	\$135,000	\$65,750	\$23,750	\$7,000	\$6,000	\$12,500	\$0	\$0	\$0	\$500,000	66%	\$252,830	\$252,830	
OTHER CHARGES	\$36,000	\$0	\$0	\$0	\$0	\$16,000	\$0	\$0	\$0	\$0	\$0	\$16,000	44%	\$20,000	\$20,000	
MISCELLANEOUS	\$33,132	\$2,740	\$3,782	\$9,230	-\$8,752	\$9,971	\$1,750	\$2,860	\$3,584	\$3,005	\$3,355	\$31,525	95%	\$3,100	\$1,607	
Subtotal	\$1,585,792	\$252,740	\$138,782	\$324,980	\$18,347	\$32,971	\$257,750	\$18,847	\$3,584	\$3,005	\$258,170	\$1,309,176	83%	\$278,109	\$276,616	
TOTAL REVENUE	\$1,585,792											\$1,309,176	83%		\$276,616	
EXPENDITURE and REVENUE																
NET COSTS		(232,620)	(74,459)	(277,567)	57,583	(1,195)	(72,078)	31,768	249,637	58,244	(98,902)	-\$359,589 FUNDS AVAILABLE			\$359,589	

ITEMIZED EXPENDITURES	Year to Date	Paid to Date										Total to Date	% Difference to Date	Estimated Cost to Complete	Remaining Budget Sum	
	Budgeted	July	August	September	October	November	December	January	February	March	April					
SALARIES - EE510																
51110 (City Staff)	\$353,736	\$0	\$26,301	\$0	\$0	\$0	\$104,483	\$0	\$0	\$0	\$108,604	\$239,388	68%	\$40,348	\$114,348	
51115 (TOPS Staff)	\$113,419	\$3,818	\$9,099	\$10,865	\$10,902	\$6,547	\$7,891	\$13,379	\$6,623	\$9,525	\$15,669	\$94,318	83%	\$49,101	\$19,101	
51730 (County Staff)	\$383,087	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$221,200	\$0	\$0	\$221,200	58%	\$161,887	\$161,887	
Subtotal - EE510	\$850,242	\$3,818	\$35,401	\$10,865	\$10,902	\$6,547	\$112,374	\$13,379	\$227,823	\$9,525	\$124,273	\$554,906	65%	\$251,336	\$295,336	
SERVICES & SUPPLIES - EE520																
52062 Telephone	\$6,520	\$481	\$355	\$601	\$487	\$0	\$376	\$974	\$371	\$372	\$0	\$4,017	62%	2,503	2,503	
52120 Insurance	\$3,600	\$0	\$0	\$0	\$2,378	\$0	\$0	\$0	\$0	\$0	\$0	\$2,378	66%	1,222	1,222	
52176 Maintenance (& Equipment Repair)	\$500	\$0	\$0	\$0	\$0	\$2,018	\$0	\$0	\$122	\$0	\$850	\$2,990	598%	200	(2,490)	
52177 Hardware Purchase (Server Purchase 09-11)	\$31,378	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,007	\$96	\$4,103	13%	3,000	27,275	
52180 Communications (Other Hardware and Software Maintenance)	\$7,272	\$0	\$32	\$35	\$2,839	\$35	\$35	\$70	\$35	\$0	\$35	\$3,116	43%	4,156	4,156	
52181 Traffic Devices (Parking Pass Stamps)	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0%	150	150	
52188 Telecommunication Cat (SBC Circuit Maintenance)	\$16,000	\$0	\$0	\$3,993	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,993	25%	12,007	12,007	
52280 Software Purchase	\$3,000	\$0	\$0	\$40	\$282	\$0	\$0	\$0	\$0	\$1,170	\$3,148	\$4,640	155%	400	(1,640)	
52284 Annual Software (WAN & LAN Maintenance Fees)	\$44,000	\$0	\$4,166	\$4,166	\$4,166	\$4,166	\$1,126	\$6,994	\$3,715	\$3,715	\$3,715	\$35,929	82%	8,071	8,071	
52330 Office Expense (Office Supplies)	\$4,000	\$180	\$171	\$193	\$182	\$60	\$0	\$182	\$788	\$30	\$127	\$1,913	48%	2,087	2,087	
52332 Postage (Mailing - Constant Contact)	\$250	\$0	\$92	\$50	\$58	\$50	\$50	\$50	\$0	\$100	\$50	\$500	200%	150	(250)	
52334 Printing (Photocopy)	\$1,400	\$116	\$0	\$233	\$0	\$116	\$116	\$233	\$0	\$116	\$116	\$1,046	75%	354	354	
52338 Drafting Engineering (Copier and Plotter Supplies)	\$3,000	\$0	\$0	\$527	\$0	\$0	\$0	\$0	\$0	\$280	\$0	\$807	27%	2,193	2,193	
52348 Data Processing (SDDPC System Access)	\$1,200	\$0	\$47	\$47	\$47	\$47	\$47	\$83	\$388	\$0	\$95	\$801	67%	399	399	
52370 Prof & Special (External Auditor)	\$8,500	\$0	\$4,451	\$0	\$0	\$0	\$0	\$0	\$562	\$0	\$3,990	\$9,003	106%	0	(503)	
52371 Applications Co (Oracle Support)	\$4,500	\$4,269	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,397	\$0	\$8,666	193%	0	(4,166)	
52374 Inter-Department (Accounting TOPS Staff)	\$5,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0%	5,500	5,500	
52384 Architecture & (Graphic Services)	\$1,000	\$0	\$0	\$196	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$196	20%	804	804	
52396 Contracted Serv (Quartec Solutions)	\$119,018	\$0	\$0	\$0	\$35,550	\$0	\$17,775	\$9,120	\$7,350	\$9,120	\$2,910	\$81,825	69%	37,193	37,193	
52402 Special Circumstances (Attorney)	\$4,500	\$0	\$0	\$41	\$269	\$0	\$2,857	\$0	\$2,919	\$932	\$0	\$869	175%	1,000	(3,387)	
52426 Computer Cable - (Networld Solutions)	\$93,600	\$0	\$7,800	\$7,800	\$7,800	\$7,800	\$7,800	\$7,800	\$7,800	\$7,800	\$8,143	\$70,543	75%	23,057	23,057	
52432 Contracted Serv (UNIX Support SUN Microsystems)	\$2,632	\$0	\$0	\$2,632	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,632	100%	0	0	
52530 Rents and Lease (Office Rent)	\$107,606	\$8,775	\$8,775	\$8,775	\$8,775	\$8,775	\$8,775	\$9,437	\$0	\$18,212	\$9,106	\$89,405	83%	18,201	18,201	
52560 Books and Publica (Aerial Photo Contract)	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0%	65,000	65,000	
52564 Road Material (Thomas Brothers Maps Data)	\$10,775	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0%	10,775	10,775	
52566 Minor Equipment (Equipment Furniture)	\$2,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0%	2,500	2,500	
52622 Training/Regis (Conference Training Events)	\$3,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,247	\$1,247	36%	2,253	2,253	
52674 Water (Drinking Water)	\$250	\$0	\$25	\$15	\$17	\$17	\$0	\$39	\$14	\$15	\$0	\$142	57%	108	108	
52728 Application Ser (ESRI GIS Software License)	\$36,000	\$0	\$0	\$0	\$0	\$0	\$30,455	\$0	\$0	\$0	\$0	\$30,455	85%	2,500	5,545	
Subtotal - EE520	\$587,151	\$13,821	\$25,914	\$29,344	\$62,850	\$23,084	\$69,412	\$35,851	\$24,064	\$50,266	\$33,628	\$368,234	63%	\$205,783	\$218,917	
OTHER CHARGES - EE530																
53030 Communication Adm (Credit Card Expense)	\$1,000	\$80	\$78	\$127	\$116	\$87	\$154	\$57	\$70	\$115	\$102	\$986	99%	450	14	
53585 Equipment Dep E (Equipment Depreciation)	\$0	\$2,400	\$2,400	\$2,228	\$2,060	\$2,050	\$2,050	\$1,330	\$1,265	\$1,265	\$1,265	\$18,313	0%	3,795	(18,313)	
Subtotal - EE530	\$1,000	\$2,480	\$2,478	\$2,355	\$2,176	\$2,137	\$2,204	\$1,387	\$1,335	\$1,380	\$1,367	\$19,299	1930%	4,245	(18,299)	
FIXED ASSETS EQU - EE548																
54979 Communication E (Hardware)	\$10,000	\$0	\$530	\$4,849	\$0	\$6	\$1,682	\$0	\$0	\$79	\$0	\$7,146	71%	2,854	2,854	
Subtotal - EE548	\$10,000	\$0	\$530	\$4,849	\$0	\$6	\$1,682	\$0	\$0	\$79	\$0	\$7,146	71%	2,854	2,854	
RESERVES EE560																
56042 Contingency Res (Contingency Reserve)	\$137,399	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0%	0	137,399	
Subtotal EE560	\$137,399	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0%	0	137,399	
EXPENDITURE TOTAL	\$1,585,792	\$20,119	\$64,323	\$47,413	\$75,928	\$31,774	\$185,672	\$50,617	\$253,222	\$61,250	\$159,268	\$949,585	60%	464,218	636,207	

ITEMIZED REVENUES	Year to Date	Paid to Date											Total to Date	% Difference to Date	Estimated Revenue	Remaining Sum	
	Budgeted	July	August	September	October	November	December	January	February	March	April						
REVENUE USE MON RR440																	
44105 Interests on Dep (Interests Earned)	\$11,000	\$0	\$0	\$0	\$3,349	\$0	\$0	\$3,487	\$0	\$0	\$1,985	\$8,821	80%	\$2,179	\$2,179		
Subtotal RR440	\$11,000													\$2,179	\$2,179		
INTERGOVERNMENTAL FUNDING RR450																	
45912 Aid fr Other Go (County of San Diego Funding - LUEG Exec Office)	\$502,830	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	50%	\$252,830	\$252,830		
45913 Aid fr City of (City of san Diego Funding)	\$752,830	\$0	\$0	\$250,000	\$0	\$0	\$250,000	\$0	\$0	\$0	\$252,830	\$752,830	100%	\$0	\$0		
45918 Aid fr Other Go (County of San Diego Funding - LUEG Departments)	\$250,000	\$0	\$135,000	\$65,750	\$23,750	\$7,000	\$6,000	\$12,500	\$0	\$0	\$0	\$250,000	100%	\$0	\$0		
Subtotal RR450	\$1,505,660													\$252,830	\$252,830		
CHARGES FOR CURR RR460																	
46778 Other Charges (ARGIS and USGS Contract)	\$36,000	\$0	\$0	\$0	\$0	\$16,000	\$0	\$0	\$0	\$0	\$0	\$16,000	44%	\$20,000	\$20,000		
Subtotal RR460	\$36,000													\$20,000	\$20,000		
MISCELLANEOUS RE RR470																	
47535 Misc Revenue ot (This is not in the SanGIS Budget)	\$0	\$0	\$681	\$0	\$0	\$0	\$0	\$1,057	\$107	\$0	\$0	\$1,845	0%	\$100	-\$1,845		
47610 Other Sales (Store Front Sales)	\$33,132	\$2,740	\$3,101	\$9,230	(\$8,752)	\$9,971	\$1,750	\$1,803	\$3,478	\$3,005	\$3,355	\$29,681	90%	\$3,000	\$3,451		
Subtotal RR460	\$33,132											\$31,526		\$3,100	\$3,100		
REVENUE TOTAL	\$1,585,792	\$252,740	\$138,782	\$324,980	\$18,347	\$32,971	\$257,750	\$18,847	\$3,585	\$3,005	\$258,170	\$1,309,177	83%	\$278,109	\$276,615		
EXPENDITURE and REVENUE - DELTAS																	
NET COSTS (CURRENT REVENUES - CURRENT EXPENDITURES)	\$0	(232,621)	(74,459)	(277,567)	57,581	(1,197)	(72,078)	31,770	249,637	58,245	(98,902)	-\$359,589	0%		\$359,589		
														Available Funding			

DRAFT- Memorandum of Understanding between SANDAG and SanGIS

Regarding the Transfer of Public Mapping Services and Publicly Available GIS Data Clearinghouse to SANDAG

May 4, 2009

Executive Summary –

This agreement details the history and relationship that has existed between SANDAG and SanGIS and suggests that greater savings and efficiencies could be achieved if SanGIS was to provide bulk distributions of GIS data to SANDAG and SANDAG was to adopt the role of regional GIS data clearinghouse for these data. This clearinghouse for GIS data would be created and maintained by SANDAG for the purpose of hosting SanGIS data to the public. Additionally this agreement identifies those public mapping services currently provided at SanGIS which could additionally be provided by SANDAG.

The existing relationship between SanGIS and SANDAG, where SANDAG attends SanGIS Technical Advisory Meetings (STAB) and receives direct access to data from SanGIS, will be officially codified with this agreement. The specific modifications to the existing relationship are generally described as SanGIS through an automated copying process developed by SanGIS, providing enhanced access to its GIS public data warehouse data layers to SANDAG; SANDAG agreeing to distribute these data to the public through a GIS Data Clearinghouse website; and SANDAG providing a public mapping service. This is a quid pro quo agreement MOU with services being exchanged for services and no exchange of money or fees is occurring between SanGIS and SANDAG with its adoption.

APPENDIX 1

MEMORANDUM OF UNDERSTANDING REGARDING FEASIBILITY OF TRANSITIONING SanGIS DATA CLEARINGHOUSE AND MAPPING SERVICES TO SANDAG

This Memorandum of Understanding (MOU or Agreement) is entered as of _____, 2009, by and among the San Diego Geographic Information Source (“SanGIS”), and the San Diego Association of Governments (“SANDAG”), the Parties.

RECITALS

Whereas, SanGIS is a Joint Powers Authority (“JPA”) created by the City of San Diego and the County of San Diego in July 1997 to promote the use of a regional geographic data warehouse for the San Diego area and to assist in the development of shared geographic data and automated systems which use that data; and

Whereas, the SanGIS data warehouse contains over 100 publicly available geographic data layers including roadways and parcels; and

Whereas, SanGIS offers to the public for free these data from its data warehouse in a publicly accessible GIS data clearinghouse website commonly referred to as the “SanGIS Data Clearinghouse” or “Public Data Clearinghouse”; and

Whereas, SANDAG is San Diego’s regional Council of Governments and its Metropolitan Planning Organization comprised of the County of San Diego and the 18 cities in the San Diego region; and

Whereas, currently most jurisdictions within the San Diego region maintain their own GIS systems, using their own equipment, staff and formatting styles to map infrastructure, such as storm drains, sewer and water lines within their respective jurisdictional boundaries and immediate vicinity; and

Whereas, developing a collaborative regional geographic information system for public data will provide a central clearinghouse for all of the San Diego region to access GIS data sets that can be used in operational, planning or research programs potentially eliminating redundant server infrastructure by consolidating public data into a central easily sourced location; and

Whereas, on January 16, 2008, the SanGIS Board of Directors asked its Executive Director to collaboratively explore with SANDAG the possibility of transitioning

responsibility for the publicly available SanGIS Data Clearinghouse and Public Mapping Services to SANDAG (referred her after to as “the transition” or “transition”); and

Whereas, as requested by SANDAG, SanGIS provided SANDAG with statistics about the size, volume, resource requirements, technical feasibility and nature of the existing SanGIS Data Clearinghouse and Mapping Services; and

Whereas, in April 2008, SANDAG’s Technical Services Department began working with SanGIS staff and technical advisory board to evaluate, test and determine the technical feasibility, resource requirements, data quality, budgeting, human resource allocation, data ownership and maintenance aspects of this proposed transition; and

Whereas, subject to the terms and conditions of the SanGIS Joint Powers Agreement between the City of San Diego and the County of San Diego, and the approval of the SanGIS and SANDAG Board of Directors or their authorized designees, the parties wish to formalize transitioning the responsibility for the SanGIS Public Data Clearinghouse and Public Mapping Services to SANDAG.

Whereas, with the acceptance of this agreement the roles of SanGIS and SANDAG will respectively be defined as one group providing a GIS data warehouse service for the region (SanGIS) and the other providing a publicly accessible GIS data clearinghouse and mapping service for the region and public at large (SANDAG).

AGREEMENT

Now, therefore, in consideration of the mutual covenants contained in this Agreement, the Parties agree as follows:

1. Recitals. That each recital set forth above is incorporated herein by this reference and is made part of this Agreement.
2. Transition. To transition Data Clearinghouse and Public Mapping Services components from SanGIS to SANDAG, including, but not limited to, the publicly available SanGIS GIS data layers listed in Appendix B as well as mapping services described in Appendix A. SANDAG will not assume any responsibility for the maintenance of SanGIS physical equipment, the SanGIS Land Base Maintenance System, the infrastructure for the SanGIS Data Warehouse, IT infrastructure environment, storage containers, file cabinets, invoice blanks, mailing lists and other physical accoutrements associated with this public data clearing house and public mapping service transition.
3. Quality Control. To achieving acceptable quality control standards as defined in Appendix A for the data transferred. These quality control standards may be based on current Federal Geographic Data Committee standards for the metadata or the currently

adopted SanGIS metadata standard, which includes the spatial geographic accuracy of the metadata, along with the attribute accuracy of data transferred from SanGIS to SANDAG.

4. Cooperation. To jointly determine the on going precise roles of each party regarding ownership, transfer, updates, error reporting, corrections and maintenance of the data yet to be mentioned by this document. This includes discussions of when, where, how and with whom these exchanges may occur. All extant datasets that are exchanged between SanGIS and SANDAG must comply with the data standards set forth in Appendix A. All data that is to be exchanged must go through this collaboration process and be added to the data listed in Appendix B. The first official actions of this agreement will be to jointly approve Appendix B. Both parties must then agree to content updates of Appendix B before any data is further exchanged. The data exchange collaboration process shall be vetted through the SanGIS Technical Advisory Board (STAB) or in a separate meeting expressly dedicated to this agreement to be held at the SANDAG physical premises with representatives from both parties.

5. Cost-Benefit Analysis. To cooperate in a cost-benefit analysis of those Public Mapping Services that SanGIS may wish to retain and those that SANDAG may wish to obtain, including, but not limited to, candid discussion of the volume and type of requests received for maps, percent of revenue derived from laminating, compiling data extracts, storage requirements, and staffing levels.

6. Discussion of Post-Transition Service. To discuss post-transition customer service and support levels the Parties wish to give to, and receive from the other, including, but not limited to: methodological GIS questions from SanGIS mapping service customers that become SANDAG customers, designation by each Party' of a primary contact staff or liaison assignment for Data Clearinghouse matters and for Mapping Services matters that could better explain previous practices at SanGIS may now be done at SANDAG.

7. Long Range Budget Impacts. To evaluate immediate and long-range budgeting and staffing impacts on both SanGIS and SANDAG if the Transition is realized including but not limited to publicizing the benefits and mutual cost savings of the relationship between SanGIS and SANDAG. This evaluation will be in the form of a brief report published to both the SanGIS and SANDAG website and will be completed no later than 1 year after the Transition.

8. Public Outreach. In concert with each of the Parties respective Public Information Offices, to develop a conceptual public outreach plan to inform the public, City and County staff, Office of Emergency Services, Fire, Police and other Public Safety entities and SANDAG's member agencies impacted by the Data Clearinghouse and Mapping Services transition from SanGIS to SANDAG.

9. Ownership of the Data Warehouse(s)

- A. It is agreed that SanGIS will retain ownership, control, and maintenance of the SanGIS Data Warehouse, all the data within it, and the rights to maintain a Public Mapping Services. With the enacting of this document, SanGIS and SANDAG agree to exchange data listed in Appendix B that complies with the standards set forth in Appendix A.
- B. It is agreed that SANDAG will retain ownership, control, and maintenance of its GIS data warehouse and its content.
- C. It is agreed that the act of exchanging data between SanGIS and SANDAG does not extend rights of ownership or authorship to the source data created by party of origin.
- D. It is agreed that the data in Appendix B will be attributed with an ownership value identifying either SanGIS or SANDAG as the data layer owner or steward.
- E. It is agreed that SANDAG's ability to automatically redistribute the data sourced from SanGIS is limited and/or prohibited by the constraints of Section 13

10. Documentation – Both parties agree to share copies of all documents related to the transition at issue here, including but not limited:

- A. All necessary IT architecture requirements, historic and current FTP download statistics, data storage capacity, and existing customer names.
- B. Both parties agree specifically to share their source code that is used to maintain the automatic GIS data copy process between both parties that moves GIS data automatically when it is altered or updated. Since the script was developed by and is required for the SanGIS JPA paying customers business functions, this script will be owned and maintained by SanGIS. This script can be modified by SANDAG in their internal network areas to meet their internal business needs should they so desire.
- C. All information related to service staffing levels to support the Data Clearinghouse, relevant revenue and expenditure operating data for services to be assumed, including labor.
- D. All information related to estimated hardware and software costs, estimated software and hardware licenses.

- E. All information used for effective outreach campaigns and their cost, and any other reasonably related information that could inform SanGIS' or SANDAG's decision making process regarding the success of the transition of the SanGIS Data Clearinghouse and Public Mapping Services to SANDAG.

11. Liability of Both Parties as to Data and Proclaimed Accuracies.

- A. SANDAG will take no responsibility for the maintenance or editing of any data layer received from SanGIS for inclusion in the data warehouse. SanGIS will take no responsibility for the maintenance or editing of any data layer received from SANDAG for inclusion in the SanGIS data warehouse. .
- B. All data regardless of how its precision or accuracy is described, by National Mapping Accuracy Standards or otherwise, is hereby disclaimed in its use and must bear the standard disclaimer that is referenced in Appendix A.

12 Indemnification.

12.1 Claims Arising from Sole Acts or Omissions of SanGIS. SanGIS hereby agrees to defend and indemnify SANDAG, its agents, officers and employees, from any claim, action or proceeding against SANDAG, arising solely out of the acts or omissions of SanGIS in the performance of this MOU. At its sole discretion, SANDAG may participate at its own expense in the defense of any claim, action or proceeding, but such participation shall not relieve SanGIS of any obligation imposed by the Agreement. SANDAG shall notify SanGIS promptly of any claim, action or proceeding and cooperate fully in the defense

12.2 Claims Arising From Sole Acts or Omissions of SANDAG. SANDAG hereby agrees to defend and indemnify SanGIS, its member agencies, agents officers and employees from any claim, action or proceeding against SanGIS, arising solely out of the acts or omissions of SANDAG in the performance of this MOU. At its sole discretion, SanGIS may participate at its own expense in the defense of any such claim, action or proceeding, but such participation shall not relieve SANDAG of any obligation imposed by this MOU. SanGIS shall notify SANDAG promptly of any claim, action or proceeding and cooperate fully in the defense.

12.3 Claims Arising from Concurrent Acts or Omissions: SanGIS hereby agrees to defend itself, and SANDAG hereby agrees to defend itself, from any claim, action or proceeding arising out of the concurrent acts or omissions of SanGIS and SANDAG.

In such cases, SanGIS and SANDAG agree to retain their own legal counsel, bear their own defense costs, and waive their right to seek reimbursement of such costs.

12.4 Joint Defense: Notwithstanding the above, in cases where SanGIS and SANDAG agree in writing to a joint defense, SANGIS and SANDAG may appoint joint defense counsel to defend the claim, action or proceeding arising out of the concurrent acts or omissions of SanGIS and SANDAG. Joint defense counsel shall be selected by mutual agreement of SanGIS and SANDAG. SanGIS and SANDAG agree to share the costs of such joint defense and any agreed settlement in equal amounts, except as provided in paragraph 4.E of the Agreement. SanGIS and SANDAG further agree that neither party may bind the other to a settlement agreement without the written consent of both SanGIS and SANDAG.

12.5 Reimbursement and/or Reallocation: Where a trial verdict or arbitration award allocates or determines the comparative fault of the parties, SanGIS and SANDAG may seek reimbursement and/or reallocation of defense costs, settlement payments, judgments and awards, consistent with such comparative fault.

12.6 Survival After Termination. This section 12 shall survive the termination of this MOU.

13. Limits of Distribution, Exchanges, Copying, Commoditization, and Repurposing of the Data

- A. Data exchanged in Appendix B will be available to the public only through a publicly available SANDAG clearinghouse website for downloading. This website will be expressly for members of the public or agents of governmental entities other than SANDAG and SanGIS. Data may also be distributed to the public by SANDAG by compiled data extract to compact disk or similar portable digital media storage device. SanGIS JPA members and contractual business partners, such as SANDAG may freely exchange data with each other by any appropriate means.
- B. It is agreed that GIS data exchanged listed in Appendix B is owned by its respective originating party will not be resold, repackaged, or repurposed in any way without the expressed written consent by the data owner. It is specifically agreed that the automatic re-distributions of the SanGIS database copies originating from SanGIS copied by SANDAG and sent by SANDAG to third parties networks through automated or programmatic digital copying is prohibited without contractual or written consent from SanGIS. Any and all automatic redistribution of SanGIS data copied from SanGIS and sent to third party for a service fee is specifically prohibited without contractual or written consent from SanGIS.

C. It is agreed that SanGIS will not repackage or redistribute data acquired from SANDAG to entities outside the SanGIS JPA or SanGIS' contractual business partners.

14. Counterparts. This MOU may be executed in counterparts, each of which shall be deemed an original after all parties have executed this MOU.

15. Severability. The invalidity of any portion of this MOU shall not invalidate the remainder as long as such invalidity does not materially affect the agreement of the parties.

16. No Presumption of Drafting. Each party and its counsel have reviewed this MOU and that no rule of construction to the effect that any ambiguities are to be resolved against the drafting party shall be employed in the interpretation of this Agreement.

17. Close-out of GIS Clearing House. SanGIS agrees that, after a period of performance to validate that the public and the JPA customers of SanGIS are effectively being served by the SANDAG Public Clearinghouse, it will shut down its public GIS clearinghouse website. It is additionally agreed that SanGIS public GIS data clearinghouse web traffic will be redirected to SANDAG and the public GIS clearinghouse website. The period of performance for this evaluation period shall be no longer than 1 year. It is the prerogative of SanGIS to determine if JPA customers and the public are effectively being served. The start of this period of performance will be mutually agreed upon by both SanGIS and SANDAG.

18. Application to Successor Agencies. SANDAG agrees that, should the SanGIS JPA between the City and the County be dissolved, the fundamental provisions of this MOU herein will be offered separately to either of the City of San Diego, the County of San Diego, or both. The new MOU will be offered to either party to separately join for a period of 6 (six) months following the dissolution of the SanGIS JPA. The resulting agreement will be redrafted and edited only to appropriately represent the new names and parties. Should both SANDAG and either of the original parties desire it, modifications to the surviving MOU language may be made to reflect either the County of San Diego or the City of San Diego's unique relationship to SANDAG in this 6 (six) month period.

19. Automated Access Service Fee Recovery. SanGIS and SANDAG agree that this MOU does not preclude the establishment of a fee structure that can be charged to third parties for automatic copying service access to the SanGIS data warehouse data. If access fees are to be changed by SANDAG, this fee structure must be established jointly between SanGIS and SANDAG in writing as a separate agreement or contract that is compliant with this MOU. This agreement may be a separate MOU. It is agreed that any fee structure or agreement to change access to the SanGIS data in the SANDAG data clearinghouse will be jointly developed between SanGIS and SANDAG staff.

20. Voting Rights on SanGIS Board of Directors or SanGIS Technical Advisory Board

In order to ensure data quality concerns are being met SANDAG shall obtain qualified voting rights equivalent to the City of San Diego and County of San Diego on the SanGIS Board of Directors or SanGIS Technical Advisory Board (STAB). These voting rights are contingent upon SANDAG paying an equal share of the SanGIS annual operating budget. SANDAGs share of the SanGIS operating costs will be equal to the share paid by the other members. This voting right is additionally contingent upon the dissolution or amendment to the current SanGIS JPA and the adoption of a new or amended JPA or similar contractual vehicle which includes SANDAG. Should SANDAG not wish to become to become a party to the SanGIS JPA or its successor, a non-voting position on the STAB or the SanGIS Management Committee will be constructed as a result of their participation in this agreement. The non-voting SANDAG position on the SanGIS Management Committee is expected to be filled with a SANDAG officer of appropriate rank or position proportional to other Committee members. Any of the above scenarios shall ensure that SANDAG has appropriate authority and oversight to insure data quality standards for data SANDAG is responsible to publish.

21. Termination SanGIS and SANDAG agree that either party may terminate this MOU without cause by sending written notification to the other party indicating their intention to terminate the agreement. It is jointly agreed that three months prior notification to either party is required for this termination notice to be effected.

22. Authority to Sign. The individuals signing on behalf of each party represent and warrant that they are authorized to do so on behalf of their respective agencies.

23. No Money to Change Hands. This is a services based *quid pro quo* MOU with data dissemination services being exchanged for data access services and no exchange of money or fees is occurring between SanGIS and SANDAG with its adoption.

24. Notices. Any notices authorized or required to be given by this MOU shall be deemed effective three days after placement in the United States Mail or immediately effective if delivered by hand at the following addresses

A. SanGIS: [Insert address]

B. SANDAG [Insert address]

Either Party may change its address by written notice to the other Party.

SanGIS and SANDAG MOU - Regarding the Transfer of Public Mapping Services and Publicly Available GIS Data Clearinghouse to SANDAG

Signatories - San Diego Information Source

By: _____
SanGIS Board of Directors
City of San Diego Representative

Date: _____

By: _____
SanGIS Board of Directors
County of San Diego Representative

Date: _____

Approved as to Form:

By: _____
William D. Smith
Chief Deputy County Counsel

Date: _____

Counsel for San Diego Geographic Information Source

Signatories - San Diego Association of Governments

Dated: January _____, 2009

By: _____
Gary Gallegos
Executive Director

Approved as to Form:

By: _____
General Counsel
San Diego Association of Governments

Date: _____

Appendix A Data Standards

Spatial Accuracy

SANDAG uses Part 3: Geospatial Positioning Accuracy Standards of the National Standard for Spatial Data Accuracy published by the Federal Geographic Data Committee (FGDC-STD-007.3-1998). According to the FGDC, “The National Standard for Spatial Data Accuracy (NSSDA) implements a statistical and testing methodology for estimating the positional accuracy of points on maps and in digital geospatial data, with respect to georeferenced ground positions of higher accuracy.” Any data that does not comply with the NSSDA will not be published to the SANDAG data warehouse and will be the responsibility of SanGIS to bring into compliance with the NSSDA.

SANDAG will not publish any data exceeding 190 feet horizontal accuracy at 95% confidence level according to the NSSDA. Under the National Mapping Accuracy Standards (USGS, 1947), 190 feet horizontal accuracy is equivalent to a map scale of 1:100,000.

All datasets that meet or exceed this accuracy level are duly described in their metadata. Any and all data in Appendix B that meets or exceed any National Map Accuracy Standards (NMAS) or similar are disclaimed in the body of this agreement regardless of implied standards¹.

Attribute (Data) Accuracy

SANDAG uses standard statistical techniques for measuring the accuracy of spatial data attributes. At a minimum, SANDAG requires an attribute accuracy standard of 95 percent validity with a confidence level of 95 percent and a confidence interval of +/- 5 percent.

SANDAG will randomly choose data records, data attributes, and feature classes to test throughout the course of this agreement. If any data set is found not to meet the above standard, the owner will be notified of the error, and it will be removed from the SANDAG public data warehouse until corrected.

¹ All data in Appendix B is covered by the disclaimed in Appendix A, regardless of implied accuracy. The presence of an accuracy or precision standard in any dataset will in no way be understood that the dataset has a WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. See the disclaimer in this document and the discussion of HIGH RISK activities.

Metadata Standards

SANDAG currently uses the Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial Metadata (FGDC-STD-001-1998) for agency metadata standards. At a minimum SANDAG requires all mandatory fields, as defined in FGDC-STD-001-1998, to be defined with correct and proper data. SANDAG will accept metadata with additional non-mandatory fields defined, but no guarantee is made to whether additional information will be displayed or distributed with the data on SANDAG's website.

Completeness

SANDAG will only publish complete datasets to the SANDAG data warehouse. All datasets shall be a complete representation of the features described in the metadata and corresponding to the metadata's time period information.

Service Level Agreement

SANDAG will not be held responsibility for the failure or accuracy of any non-SANDAG applications that use data from the SANDAG data warehouse including public safety, healthcare, emergency response, public services, or business applications from the City of San Diego, County of San Diego, or SanGIS.

SanGIS and SANDAG agrees that no mission critical, life or safety datasets, workflows, essential enterprise business functions, or high risk² activities will be solely or directly

²The data in Appendix B is not fault-tolerant and are not designed, manufactured, or intended for use or resale for use for insurance underwriting, insurance settlements, or insurance adjustment payments nor is it to be used with critical health and safety or online control equipment in hazardous environments that require fail-safe performance, such as in the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control, search and rescue, emergency response, terrorism prevention or response, fire fighting, life support, or weapons systems ("High Risk Activities"). SanGIS SPECIFICALLY DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR HIGH RISK ACTIVITIES.

The end user of the data in Appendix B agrees to indemnify, defend, and hold SanGIS, its officers, directors, employees, agents, subcontractors, licensors, successors, and assigns harmless from and against any and all liability, losses, claims, expenses (including attorneys' fees), demands, or damages of any kind, including direct, indirect, special, punitive, incidental, or consequential damages, arising out of or in any way connected with end user or permitting the use by others of Deliverables for High Risk Activities.

tyed to or totally dependant upon the data exchange procedures or resulting methodologies detailed in this document or governed by this relationship to exchange data.

SANDAG guarantees next day support for all network components relating to the SANDAG GIS public warehouse. SANDAG's staff hours are Monday through Friday from 8a to 6p excluding holidays. SANDAG does not have the staff capabilities to monitor network infrastructure (i.e. switches, routers, servers, etc) twenty-four (24) hours a day, seven (7) days a week, three hundred sixty-five (365) days a year. As such, SANDAG commits to using best practices in network architecture and design to minimize the downtime of the SANDAG data warehouse.

Updates

SanGIS will provide a record and notify SANDAG when data updates occur. All notifications shall be sent electronically. It will be SANDAG's responsibility to copy and post any updates within five (5) business days of receipt of an update notice. SANDAG will notify SanGIS within two (2) business days of updates being posted to the SANDAG data warehouse. With the exception of an emergency or natural disaster, no data shall be updated more than once a week.

Feedback and Quality Assurance

SanGIS will have ninety (90) days to fix any data errors presented to the SanGIS Management Committee by SANDAG. If errors are not corrected or sufficiently explained within 90 days, SANDAG reserves the right to remove the entire dataset in question from the SANDAG public Clearinghouse which is assuming the functions of the SanGIS Data Clearinghouse.

SanGIS will provide SANDAG with thirty (30) days notice of any impending data schema change. This includes, but is not limited, positional accuracy improvements or degradations, addition or removal of attribute fields, alteration of data table field names. Notice will be in the form of an email or newsletter notification to the SANDAG data warehouse steward or DBA.

Disclaimer

The following disclaimer must be presented or accessible when distributing or using the data in Appendix B in any fashion:

Delivery of Deliverables does not constitute a waiver of the rights and obligations set forth in this disclaimer.

“THIS MAP AND/OR DATA PRODUCT IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Copyright SanGIS. All Rights Reserved.

This product may contain information from SANDAG Regional information System which cannot be reproduced without the written permission of SANDAG. This product may contain information which has been reproduced with permission granted by Thomas Brothers Maps.”

Data Sourcing

SANDAG will document all data documented in Appendix B as owned by SanGIS as, “The following data is developed and compiled by the San Diego Geographic Information Source (SanGIS). SANDAG provides the data “as is” from SanGIS. All questions and concerns about data use, data integrity and accuracy should be directed to the contact identified in the data’s metadata record or to the general contact number available for SanGIS at www.sangis.org.”

Data List

SANDAG agrees to provide only the SanGIS data layers listed in Appendix B for public dissemination and download on the SANDAG GIS data download website. The Appendix B list is jointly maintained by qualified actors of both SanGIS and SANDAG, data that is NOT jointly agreed to be present will not be included in Appendix B or in the any automated data exchange between SanGIS and SANDAG. Any addition or deletion to the list may require a modification to this memorandum of understanding or a jointly executed letter that the Appendix B is jointly agreed upon. Any change to the Appendix B shall require the letter be modified and jointly executed in counterpart originals by qualified actors³ of both parties.

SANDAG Service Bureau Services

Printed Maps (\$10)

Wall size, color reprints of the standard SANDAG maps displayed on the SANDAG web page. SANDAG Public Information Office currently processes orders for SANDAG

³ “Qualified Actors” for SanGIS is defined as both members of the SanGIS Board of Directors or both members of the SanGIS Management Committee. For SANDAG it is defined as any representative they designate as their representative to SanGIS Technical Advisory Board.

standard maps. (It is unclear if the maps currently available on SanGIS would become available through SANDAG. If so, a process and fee for reprinting would have to be established through the Public Information Office. The Service Bureau does not provide reprints of maps we produced for other customers.)

Custom Maps (\$200 + \$85/hour)

Maps which require data import or map layer creation, special sizes, extensive labeling, special logos or other items are available through the Service Bureau. Custom maps begin at \$200 per map plus an additional \$85 per hour labor charge.

Layer	Description	Category	External Warehouse List*	External Warehouse List**	Available for Download	Coverage	Owner/Steward	Data Received From	Notes
ADDRAPN	Address Points	Address	●	●	●	Regional	SanGIS	SanGIS	
AG_COMMODITY	Agricultural commodity production sites	Agriculture	○	○	●	Regional	County	County AWM (Ag Weights & Measure)	
AG_NURSERY_LOCS	Nursery Locations	Agriculture	○	○	●	Regional	County	County AWM (Ag Weights & Measure)	Added
AG_POINT_OF_SALE	Point of Sale locations	Agriculture	○	○	●	Regional	County	County AWM (Ag Weights & Measure)	Added
AG_PRESERVE	Agricultural preserves	Agriculture	○	●	●	Regional	County	County AWM (Ag Weights & Measure)	
AG_PRESERVE_CONTRACTS	Williamson Agriculture Perserver Contracts	Agriculture	○	●	●	Regional	County	County DPLU	
AG_STANDARDS_DEVICES	Agricultural Standards Devices Locations	Agriculture	○	○	●	Regional	County	County AWM (Ag Weights & Measure)	Added
AG_TRAP_GRID	Pest Detection Trap Grid	Agriculture	○	○	●	Regional	County	County AWM (Ag Weights & Measure)	Added
AG_TRAP_SUB_GRID	Pest Detection Trap Quints	Agriculture	○	○	●	Regional	County	County AWM (Ag Weights & Measure)	Added
BUS_CONSTRUCTION_DEMO_RECYCLE	City Construction Demolition Recycling	Business	●	●	●	City	City	City Economic Development	
BUS_ENTERPRISE_ZONES	City Enterprise Zones	Business	●	●	●	City	City	City Economic Development	
BUS_FOREIGN_TRADE_ZONES	City Foreign Trade Zones	Business	●	●	●	City	City	City Economic Development	
BUS_IMPROVEMENT_DISTRICTS	City Business Improvement Zones	Business	●	●	●	City	City	City Economic Development	
BUS_METRO_REVLOAN	Metro Revolving Loan Areas	Business	○	●	●	City	City	City Economic Development	
BUS_PRRPTY_BASED_IMPRVMENT_DIST	City Property Based Improvement Districts	Business	●	●	●	City	City	City Economic Development	
BUS_RECYCLING_MARKET_DEV_ZONES	City Recycling Market Development Zones	Business	●	●	●	City	City	City Economic Development	
BUS_RENEWAL_COMMUNITY	City Renewal Community	Business	●	●	●	City	City	City Economic Development	
BUS_SD_REVLOAN	City Revolving Loan Areas	Business	●	●	●	City	City	City Economic Development	
BUS_SITES	Business Sites	Business	○	●	●	Regional	County	County Assessor/SanGIS	
BUS_TARGETED_EMPLOYMENT_AREAS	City Targeted Employment Areas	Business	●	●	●	City	City	City Economic Development	
CEN_BLOCKS	Census Bocks	Census	●	●	●	Regional	SANDAG	SanGIS/SANDAG	
CEN_MAJOR_STAT_AREAS***	Census Major Statistical Areas	Census	●	○	○	Regional	SANDAG	SANDAG	Not in SDE or FTP
CEN_SUBREG_AREAS***	Census Subregional Areas	Census	●	○	○	Regional	SANDAG	SANDAG	Not in SDE or FTP
CEN_TRACT	Census Tracts	Census	●	●	●	Regional	SANDAG	SanGIS/SANDAG	
CENSUS_BLOCKGROUP_INCOME_EDU	Census Block Group w/ Income and Education	Census	○	●	●	Regional	SANDAG	SanGIS/SANDAG	
CENSUS_BLOCKGROUP_POP_HOUSING	Census Block Group w/ Population and Housing	Census	○	●	●	Regional	SANDAG	SanGIS/SANDAG	
CENSUS_JUR_INCOME_EDU	Census Jurisdiction w/ Income and Education	Census	○	●	●	Regional	SANDAG	SanGIS/SANDAG	
CENSUS_JUR_POP_HOUSING	Census Jurisdiction w/ Population and Housing	Census	○	●	●	Regional	SANDAG	SanGIS/SANDAG	
CENSUS_MSA_INCOME_EDU	Census MSA w/ Income and Education	Census	○	●	●	Regional	SANDAG	SanGIS/SANDAG	
CENSUS_MSA_POP_HOUSING	Census MSA w/ Population and Housing	Census	○	●	●	Regional	SANDAG	SanGIS/SANDAG	
CENSUS_SRA_INCOME_EDU	Census SRA w/ Income and Education	Census	○	●	●	Regional	SANDAG	SanGIS/SANDAG	
CENSUS_SRA_POP_HOUSING	Census SRA w/ Population and Housing	Census	○	●	●	Regional	SANDAG	SanGIS/SANDAG	
CENSUS_TRACT_INCOME_EDU	Census Tracts w/ Income and Education	Census	○	●	●	Regional	SANDAG	SanGIS/SANDAG	
CENSUS_TRACT_POP_HOUSING	Census Tracts w/ Population and Housing	Census	○	●	●	Regional	SANDAG	SanGIS/SANDAG	
CENSUS_ZIP_INCOME_EDU	Census Zip Codes w/ Income and Education	Census	○	●	●	Regional	SANDAG	SanGIS/SANDAG	
CENSUS_ZIP_POP_HOUSING	Census Zip Codes w/ Population and Housing	Census	○	●	●	Regional	SANDAG	SanGIS/SANDAG	
CIP_ACCESSIMP	City Accessibility CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering	Changed to name in SDE
CIP_BIKEWAY	City Bikeway CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering	Changed to name in SDE
CIP_BRIDGENEW	New and Replacement Bridges CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering	Changed to name in SDE
CIP_CITYFACILITY	Other City Facilities CIP	CIP	○	●	●	City	City	City ECP Architectural Engineering	Changed to name in SDE
CIP_COMMFACILITY	Community Facilities CIP	CIP	○	●	●	City	City	City ECP Architectural Engineering	Changed to name in SDE
CIP_FIRE	Fire Facilities CIP	CIP	○	●	●	City	City	City ECP Architectural Engineering	Changed to name in SDE
CIP_FLASHER	Flashing Beacons and Traffic Control CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering	Changed to name in SDE
CIP_GUARDRAIL	Guard Rails and Miscellaneous Bridgework CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering	Changed to name in SDE
CIP_TRAILS	Hiking and Equestrian Trails CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering	Changed to name in SDE
CIP_LIBRARY	Library CIP	CIP	○	●	●	City	City	City ECP Architectural Engineering	Changed to name in SDE
CIP_LIFEGUARD	Lifeguard CIP	CIP	○	●	●	City	City	City ECP Architectural Engineering	Changed to name in SDE

Layer	Description	Category	External Warehouse List*	External Warehouse List**	Available for Download	Coverage	Owner/Steward	Data Received From	Notes
CIP_METRO	MWD CIP Projects	CIP	●	●	●	City	City	City MWWD/Water	Changed to name in SDE
CIP_OVERLAY	Overlay (hot mix asphalt over pavement) CIP	CIP	○	●	●	City	City	City Streets Division	Changed to name in SDE
CIP_PARK	Park Facilities CIP	CIP	○	●	●	City	City	City Parks & Recreation	Changed to name in SDE
CIP_PARKWAY	Parkway Enhancements and Medians CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering & CED	Changed to name in SDE
CIP_TOTLOT	Play Areas and Tot Lot Facilities CIP	CIP	○	●	●	City	City	City Parks & Recreation	Changed to name in SDE
CIP_PMFUTURE	Future Paving Moratorium CIP	CIP	○	●	●	City	City	City ECP	Changed to name in SDE
CIP_PMOVRLAY	Overlay Paving Moratorium CIP	CIP	○	●	●	City	City	City ECP	Changed to name in SDE
CIP_PMSLURRY	Slurry Paving Moratorium CIP	CIP	○	●	●	City	City	City ECP	Changed to name in SDE
CIP_POLICE	Police Facilities CIP	CIP	○	●	●	City	City	City ECP Architectural Engineering	Changed to name in SDE
CIP_RECENTER	Recreation Center CIP	CIP	○	●	●	City	City	City Parks & Recreation	Changed to name in SDE
CIP_RECLAIMWATER	Reclaimed Water CIP	CIP	○	●	●	City	City	?	Changed to name in SDE
CIP_RESTROOM	Restrooms / Comfort Stations CIP	CIP	○	●	●	City	City	City Parks & Recreation	Changed to name in SDE
CIP_SEWER	Sewer CIP	CIP	○	●	●	City	City	City ECP Water/Sewer Design	Changed to name in SDE
CIP_SIDEWALK	Sidewalk CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering	Changed to name in SDE
CIP_SLURRY	Slurry CIP	CIP	○	●	●	City	City	City Streets Division	Changed to name in SDE
CIP_SPECIAL	Special CIP	CIP	○	●	●	City	City	City ECP (multiple divisions)	Changed to name in SDE
CIP_STORMDRAIN	Storm Drain CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering	Changed to name in SDE
CIP_STORMWATER_PUMP_STATIONS_SD	Stormwater Pump Stations CIP	CIP	○	○	●	City	City	?	Not in SDE
CIP_STREETNEW	Street (New) CIP	CIP	○	○	●	City	City	City ECP Traffic Engineering	Changed to name in SDE
CIP_STREETLIGHT	Street Light CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering	Changed to name in SDE
CIP_TELECOM	Telecommunication Facilities CIP	CIP	○	●	●	City	City	City Parks & Recreation	Changed to name in SDE
CIP_TRAFFICSIGCON	Traffic Signal Interconnect CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering	Added
CIP_TRAFFICSIGMOD	Traffic Signal Modifications CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering	Added
CIP_TRAFFICSIGNAL	Traffic Signal CIP	CIP	○	●	●	City	City	City ECP Traffic Engineering	Added
CIP_VIDEOSURV	Video Surveillance CIP	CIP	○	●	●	City	City	City ECP	Changed to name in SDE
CIP_WATER	CIP Water CIP Projects	CIP	●	●	●	City	City	City Water	
CIP_WATER2	Water (2) CIP	CIP	○	●	●	City	City	City ECP Water/Sewer Design	Changed to name in SDE
CIP_WSD	City Waste Water & Sewer Design CIP Projects	CIP	●	●	●	City	City	City ECP Water/Sewer Design	
CMTY_BIKE_PLAN_SD	Bicycle Master Plan	Community	○	●	●	City	City	City Planning	
CMTY_GENERAL_PLAN_CN	General Plan	Community	○	●	●	County	County	County DPLU	
CMTY_GENERAL_PLAN_DRAFT_CN	General Plan 2020 Draft Alt20 land use map.	Community	○	●	●	County	County	County DPLU	
CMTY_GENERAL_PLAN_DRAFT_ENV_CN	General Plan 2020 Draft Alt22	Community	○	○	●	County	County	County DPLU	Added
CMTY_GENERAL_PLAN_DRAFT_HYB_CN	General Plan 2020 Draft Alt21	Community	○	○	●	County	County	County DPLU	Changed ALT22 to ALT21
CMTY_GENERAL_PLAN_DRAFT_REF_CN	General Plan 2020 Draft Alt19	Community	○	○	●	County	County	County DPLU	Changed ALT21 to ALT19
CMTY_GENERAL_PLAN_TRAILS_CN	Trails - General Plan	Community	○	●	●	Regional	County	County DPLU	
CMTY_NEIGHBORHOODS_SD	San Diego Neighborhoods	Community	○	●	●	City	City	SDPD	
CMTY_P	Community Points	Community	●	●	●	Regional	County	County DPW	
CMTY_PLAN_CN	Community Plan Areas	Community	○	●	●	County	County	County DPLU	
CMTY_PLAN_SD	Community Plans + other incorp cities	Community	●	●	●	City	City	City Planning Dept.	
CMTY_RESOURCE_CONSERV_AREAS	Resource Conservation areas with the County	Community	○	●	●	County	County	County DPLU	
CMTY_SERVCTR_SD	City Community Service Centers	Community	●	●	●	City	County	City CSC	
REC_CENTER_SD	City Recreation Centers	Community	●	●	●	City	SanGIS	SanGIS	
DIST_ASSEMBLY	CA State Assembly Districts	District	●	●	●	Regional	County	SanGIS/County ROV	
DIST_COMMUNITY_COLLEGE	Community College Districts	District	○	●	●	Regional	County	County Assessor - Mapping Div.	
DIST_COMMUNITY_SERVICE	Community Service Districts	District	○	●	●	Regional	County	County Assessor - Mapping Div.	
DIST_CONGRESS	US Congressional Districts	District	●	●	●	Regional	County	SanGIS/County ROV	
DIST_COUNCIL	City Council Districts	District	●	●	●	Regional	City	City Planning	
DIST_COUNTY_SERVICE_AREA	County Services Districts	District	○	●	●	County	County	County Assessor - Mapping Div.	

Layer	Description	Category	External Warehouse List*	External Warehouse List**	Available for Download	Coverage	Owner/Steward	Data Received From	Notes
DIST_ELEMENTARY_SCHOOL	Elementary School Districts	District	●	●	●	Regional	County	County Assessor - Mapping Div.	
DIST_FIRE_PROTECTION	Fire Protection District	District	○	●	●	Regional	County	County Assessor - Mapping Div.	
DIST_HIGH_SCHOOL	High School Districts	District	●	●	●	Regional	County	County Assessor - Mapping Div.	
DIST_HISTORIC_SD	Historic District	District	○	●	●	City	City	City Planning & Community Invest. Dept.	
DIST_HOSPITAL	Hospital District	District	○	●	●	County	County	County Assessor - Mapping Div.	
DIST_JUDICIAL	Judicial District	District	○	●	●	Regional	County	SanGIS/County ROV	
DIST_LIBRARY_SERVICE_AREAS	Library Districts	District	○	●	●	County	County	San Diego County Libraries	
DIST_MAINTENANCE_ASSESSMENT_SD	Maintenance Districts	District	●	●	●	City	City	City Facilities Financing	
DIST_PARKING_SD	Parking District	District	○	●	●	City	City	City Planning & Community Invest. Dept.	
DIST_PRECINCT	Voter Precincts (Home)	District	●	●	●	Regional	County	County ROV	
DIST_PRECINCT_CONSOLIDATED	Voter Precincts (Consolidated)	District	○	●	●	Regional	County	County ROV - Precinct Services Division	
DIST_REDEVELOPMENT	Redevelopment Districts	District	●	●	●	Regional	County	County Assessor - Mapping Div.	
DIST_SANITATION	Sanitation District	District	○	●	●	County	City	County Assessor - Mapping Div.	
DIST_SENATE	State Senate Districts	District	●	●	●	Regional	County	SanGIS/County ROV	
DIST_SPECIAL_SD	Special Districts	District	○	●	●	City	City	City Treasurer	
DIST_SUPERVISOR	County Supervisor Districts	District	●	●	●	Regional	County	SanGIS/County ROV	
DIST_UNIFIED_SCHOOL	Unified School Districts	District	●	●	●	Regional	County	County Assessor - Mapping Div.	
DIST_WATER	Water Districts	District	○	●	●	Regional	County	County Assessor - Mapping Div.	
DIST_WATER_CWA	Water Districts - CWA	District	○	●	●	Regional	County	County Assessor - Mapping Div.	
DRAIN_CHANNEL	City Storm Drain Channel	Drain (Storm)	○	●	●	City	City	City Transportation/General Serv.	
DRAIN_PIPE	City Storm Drain Pipes	Drain (Storm)	●	●	●	City	City	City General Serv. Dept - Street Div.	
DRAIN_STRUCTURE	City Storm Drain Structure	Drain (Storm)	○	●	●	City	City	City General Serv. Dept - Street Div.	
ECO_MSCP_CN_NORTH_DRAFT	Draft North County MSCP Plan	Ecology	○	●	●	Regional	County	County DPLU	
ECO_BIOLOGICAL_OBS_POINTS_CN	Biological Species Observation Points	Ecology	○	●	●	Regional	County	County Land Use & Environment Group	
ECO_CANYONS	City Canyons	Ecology	●	●	●	City	City	City	
ECO_ENVRNMENTLY_SENSITIVE_AREAS	Environmentally Sensitive Areas	Ecology	●	●	●	Regional	County	County DPLU GIS	
ECO_HABITAT_EVALUATION_MODEL	Habitat Evaluation Model	Ecology	○	●	●	Regional	County	County DPLU	
ECO_MHPA_SD	City Multiple Habitat Planning Areas	Ecology	●	●	●	City	City	City MSCP	
ECO_MSCP_SUBAREAS_SEGMENTS	mscp Subareas and Segments	Ecology	○	●	●	Regional	SANDAG	SANDAG	Not in FTP
ECO_MSCP_CN	County Multiple Species Conservation Program	Ecology	○	●	●	Regional	County	County DPLU	Added
ECO_SUBREGIONS	Ecologic Subregions	Ecology	○	●	●	Regional	County	County DPLU	
ECO_VEGETATION	Vegetation	Ecology	○	●	●	Regional	County	SANDAG (Original), County DPLU	
ECO_WATER_QUALITY_SENSITIVE_AREA	City Water Quality Sensitive Areas	Ecology	●	●	●	City	City	City Storm Water Pollution Prevention Div.	
FACILITIES_MILITARY	Military Facilities	Facilities	○	●	●	Regional	County	County Land Use & Environment Group	
FACILITIES_WASTE_CN	Waste Facilities	Facilities	○	●	●	Regional	County	County/Office of Emergency Services	Added
HOSPITAL	Hospitals	Facilities	○	●	●	Regional	County	County HHSA	
LAW_FACILITY	Law Facilities	Facilities	●	○	●	Regional	County	County District Attorney	
LIBRARY	Libraries	Facilities	●	●	●	Regional	County	County Dept. of Libraries	
DIST_FIRE_BATTALION	Fire Battalion Districts	Fire	○	●	●	City	City	City Fire	
DIST_FIRE_ENGINE	Fire Engine Districts	Fire	○	●	●	City	City	City Fire - Rescue	
FIRE_BURN_HISTORY	Fire Burn History	Fire	○	●	●	Regional	County	State of California CAL FIRE, County DPLU	
FIRE_BURN_SCAR_2003	Fire Burn Scar from 2003 Firestorm	Fire	○	●	●	Regional	County	County DPLU	
FIRE_DAMAGE_CEDAR	Cedar Fire Damage	Fire	○	●	●	Regional	County	County DPLU	
FIRE_DAMAGE_PARADISE	Paradise Fire Damage	Fire	○	●	●	Regional	County	County DPLU	
FIRE_HAZARD_SEVERITY_ZONES	Areas of significant fire hazards based on fuels	Fire	○	○	●	Regional	SanGIS	CAL FIRE - FRAP	Added
FIRE_PERIMETER_CEDAR	Cedar Fire Perimeter	Fire	○	●	●	Regional	County	State of California	
FIRE_PERIMETER_OTAY	Otay Fire Perimeter	Fire	○	●	●	Regional	County	State of California	
FIRE_PERIMETER_PARADISE	Paradise Fire Perimeter	Fire	○	●	●	Regional	County	State of California	

Layer	Description	Category	External Warehouse List*	External Warehouse List**	Available for Download	Coverage	Owner/Steward	Data Received From	Notes
FIRE_STATION	County-wide Fire Stations	Fire	●	●	●	Regional		City Fire & County DPLU	
FIRESTORM_2007_ASSIST_CENTER	Assistance Centers set up for 2007 fire storm	Fire	○	○	●	Regional	County	County Health and Human Services	
FIRESTORM_2007_DAMAGES_CN_ALL	2007 Firestorm Property Damage	Fire	○	○	●	County	City	County DPLU/SanGIS	
FIRESTORM_2007_PERIMETER	2007 Firestorm Perimeter (excl McCoy Fire)	Fire	○	○	●	Regional	County	CAL FIRE /USGS	
FAULT	City Earthquake Faults	Geology	●	●	●	City	City	City DSD/CA Dept. of Conservation, CA Geological Survey	
FAULT_ALQPRI	Earthquake Fault Zones / Alquist Priolo	Geology	○	●	●	City	City	City DSD/CA Dept. of Conservation, CA Geological Survey	
GEOHAZARD	City Geological Hazards	Geology	●	●	●	City	County	DSD	
GEOLOGY	Geology	Geology	○	●	●	Regional	County	CA Dept. of Mines and Geology	
SOILS	Soils	Geology	○	●	●	Regional	SanGIS	USDA	
GRID_1999_SD	City 1999 Orthophoto Grid	Grids	●	●	●	City	City	City GIS	
GRID_SANGIS	SanGIS Grid	Grids	●	●	●	Regional	SanGIS	SanGIS	
GRID_USGS75	USGS Quad Sheet 7.5	Grids	○	●	●	Regional	SanGIS	SanGIS	
GRID_WATER_FIELD_BOOK	Water Field Book	Grids	○	●	●	Regional	City	City Water	
DIST_HHSA_REGIONS	County Health and Human Resource Regions	Health	○	●	●	Regional	County	County HHSA	
HLTH_ADULT_DAY_CARE	Adult Day Care Centers	Health	○	○	●	Regional	County	County HHSA	
HLTH_CMS_CLINICS	Medical Services Clinics	Health	○	○	●	Regional	County	County HHSA	
HLTH_CNCIL_CMTY_CLINICS	Primary Care Sites of Council of Community Clinics	Health	○	○	●	Regional	County	County HHSA	
HLTH_COOL_ZONES	Cool Zone Locations	Health	○	○	●	Regional	County	County HHSA / Aging & Independence Services	
HLTH_FAMILY_RESOUCE_CENTERS	Family Resource Centers	Health	○	○	●	Regional	County	County HHSA	
HLTH_IMMUNIZATION_REGISTRY_LOC	Providers (San Diego Immunization Registry)	Health	○	○	●	Regional	County	County HHSA	
HLTH_SMOKING_CESSATION_PROG	Tobacco Cessation Programs	Health	○	○	●	Regional	County	County HHSA	
HLTH_SOCIAL_REHAB_FAC	Social Rehabilitation Facilities	Health	○	○	●	Regional	County	County HHSA	
HLTH_STATE_LIC_CHILD_CARE_CNTR	Licensed Child Care Facilities	Health	○	○	●	Regional	County	County HHSA	
HLTH_STATE_LIC_GROUP_HOMES	Licensed Group Homes	Health	○	○	●	Regional	County	County HHSA	
HLTH_WOMEN_INFANT_CHILD_PROG	WIC Nutrition Clinics	Health	○	○	●	Regional	County	California DHS	
AQUIFER	Aggregated Geological Formations for Groundwater	Hydrology	○	○	●	Regional	County	County DPLU	Not in SDE
HYD_BASINS	Basins and Watersheds	Hydrology	●	●	●	Regional	SanGIS	State of California	
HYD_DAM_INUNDATION	Dam Inundation	Hydrology	●	●	●	Regional	County	County DPW/California Office of Emergency Serv.	
HYD_FLOODPAN	FEMA Flood Panels	Hydrology	●	●	●	Regional	County	FEMA / DPLU	
HYD_FLOODPL	FEMA Flood Plains	Hydrology	●	●	●	Regional	County	FEMA / DPLU	
HYD_LAKE	Lakes	Hydrology	●	●	●	Regional	SanGIS	SanGIS	
HYD_PACIFIC	Pacific Ocean	Hydrology	●	●	●	Regional	SanGIS	SanGIS	
HYD_RAINFALL	Avg Annual Rainfall	Hydrology	○	●	●	Regional	County	County DPLU	
HYD_RIVERS	Rivers	Hydrology	●	●	●	Regional	SanGIS	SanGIS	
HYD_WELLS	Wells	Hydrology	○	●	●	County	County	County DPLU	
INDIAN_RESERVATIONS	Indian Reservations	Jurisdiction	●	●	●	Regional	County	SanGIS	
JUR_CNTY	County Boundary	Jurisdiction	●	●	●	Regional	SanGIS	SanGIS	
JUR_MUNICIPAL	Municipal Boundary	Jurisdiction	●	●	●	Regional	County	SanGIS	
JUR_PUBLIC_SAFETY	Public Safety Jurisdictions	Jurisdiction	○	●	●	Regional	City	SanGIS	
JUR_SP_POLY	Special Jurisdictions for City and County	Jurisdiction	○	●	●	Regional	County	SanGIS	
JUR_STATE	State Boundary	Jurisdiction	○	●	●	State	SanGIS	SanGIS	
JUR_VICINITY	Vicinity (surrounding counties, Baja, ocean)	Jurisdiction	●	●	●	Regional	SanGIS	SanGIS	
CALL_BOX	Call Boxes	Miscellaneous	○	●	●	Regional	County	County DPW	
COASTAL_OVERLAY_ZONE_SD	City of San Diego & Coastal Commission coas	Miscellaneous	○	●	●	City	City	City Dev. Services/SDDPC	Added
CONTROL_MON	Control Monuments	Miscellaneous	●	●	●	Regional	County	County DPW	
CONTROL_MON_FIRST_ORDER	Control Monuments First Order	Miscellaneous	○	●	●	Regional	County	County DPW	Not in SDE
PERMITS_DISCRETIONARY_CN	Discretionary Project Layer of County of SD	Miscellaneous	○	○	●	County	County	County DPLU - GIS	Changed to name in SDE
ESMT_OPEN_SPACE	Open Space Easements	Miscellaneous	●	●	●	Regional	SanGIS	SanGIS	
AIR_FAA_HEIGHT_NOTIFICATION	FAA Height Limitations around runways	Miscellaneous	○	●	●	Regional	City	Port District/County DPLU	Changed to name in SDE

Layer	Description	Category	External Warehouse List*	External Warehouse List**	Available for Download	Coverage	Owner/Steward	Data Received From	Notes
FOOTPRINTS_NONRESIDENTIAL_SD	Building Footprints for Nonresidential	Miscellaneous	○	○	●	City	City	City CIO	
HAZARDS_UNEXPLODED_ORDNANCE	Unexploded Ordnance	Miscellaneous	○	○	●	County	County	County DPLU	
NTL_FOREST	National Forests	Miscellaneous	●	●	●	Regional	SanGIS	SanGIS	
PARKING_IMPACT_OVERLAY_ZONE	Parking overlay zones	Miscellaneous	○	●	●	City	City	City DSD	
PO_BOX	Post Office Box Locations	Miscellaneous	○	○	●	Regional	County	County HHSA	
PORTS_OF_ENTRY_CA	Ports of entry	Miscellaneous	○	○	●	Regional	County	County of San Diego OES/SANDAG	
PUB_LAND_SUR	Public Land Surveys	Miscellaneous	○	○	●	Regional	County	County DPW	
STREET_LIGHT	Street Lights	Miscellaneous	○	●	●	City	City	City Transportation	
TAX_RATE_AREA	Tax Rate Areas	Miscellaneous	○	○	●	Regional	County	County Assessor	
TRAFFIC_SIGNAL	Traffic Signals	Miscellaneous	○	●	●	City	City	City Transportation/General Serv.	
TREES_SD	Trees	Miscellaneous	○	●	●	City	City	City Streets Division	
ZIPCODE	Zip Codes	Miscellaneous	●	●	●	Regional	SanGIS	SanGIS	
LOTS	Lot Right of Way	Parcel and Lots	●	●	●	Regional	SanGIS	County Assessor/SanGIS	Changed to name in SDE
PARCELS_ALL_NPC (not PARCELS_ALL)	Parcels (polygons)	Parcel and Lots	●	●	●	Regional	SanGIS	County Assessor/SanGIS	Data from this layer in FTP
PARCELS_EAST	Parcels in east portion of SD County	Parcel and Lots	●	●	●	Regional	SanGIS	SanGIS	Not in SDE
PARCELS_NORTH	Parcels in north portion of SD County	Parcel and Lots	●	●	●	Regional	SanGIS	SanGIS	Not in SDE
PARCELS_SOUTH	Parcels in south portion of SD County	Parcel and Lots	●	●	●	Regional	SanGIS	SanGIS	Not in SDE
ASR_BOOK	Assessor Book Grid	Parcel and Lots	○	●	●	Regional	County	County Assessor/SanGIS	
LANDBASE_BOUNDARIES	Parcel and Lot Lines	Parcel and Lots	○	●	●	Regional	County	County Assessor/SanGIS	
PARKS_CN	County Parks	Parks	○	●	●	County	County	County Park and Recreation	
GAS_STATIONS	Gas and Compressed Natural Gas (CNG) Staitons	Places	○	●	●	Regional	County	County Ag. Weights & Measure	
PLACES_CASINOS	Gambling Casinos	Places	○	●	●	Regional	County	County DPW	
PLACES_CELL_SITES	Cell Phone Towers	Places	○	●	●	Regional	County	County DPLU	
PUBSAFETY_AMBULANCE_OP_AREAS	Ambulance Exclusive Operating Areas	Public Safety	○	●	●	Regional	County	County HHSA	
PUBSAFETY_AMBULANCE_STAGE_LOC	Ambulance Staging Areas	Public Safety	○	●	●	Regional	County	County HHSA	
PUBSAFETY_TRAUMA_AREAS	Trauma Areas	Public Safety	○	●	●	Regional	County	County HHSA EMS	
RIGHT_OF_WAY	Roads Right of Way	Roads	○	●	●	Regional	SanGIS	SanGIS	
ROADS_ALL	Roads	Roads	●	●	●	Regional	City	SanGIS	
ROADS_CNTY_MAINTAINED	County Maintained Roads	Roads	○	○	●	Regional	County	County Dept. of Public Works	
ROADS_COLLECTOR	Collector Roads (segclass 4)	Roads	●	●	●	Regional	SanGIS	SanGIS	
ROADS_FREEWAY	Freeways (segclass 1)	Roads	●	●	●	Regional	SanGIS	SanGIS	
ROADS_FREEWAY_RAMP	Freeway On/Off Ramps (segclass 9)	Roads	●	●	●	Regional	SanGIS	SanGIS	
ROADS_HIGHWAY	Highway Roads (segclass 2)	Roads	●	●	●	Regional	SanGIS	SanGIS	
ROADS_INTERSECTION	Intersections	Roads	○	●	●	Regional	SanGIS	SanGIS	
ROADS_MAJOR	Major Roads (segclass 3)	Roads	●	●	●	Regional	SanGIS	SanGIS	
ROADS_TRANSITION_RAMP	Transition Ramps	Roads	○	●	●	Regional	SanGIS	SanGIS	
S_MAIN	City Sewer Main	Sewer	●	●	●	City	City	City Water	
S_MAIN_CN	County Sewer Main	Sewer	○	●	●	County	County	County DPW	
S_MANHOLE	City Sewer Manholes	Sewer	○	●	●	City	City	City Water	
S_MANHOLE_CN	County Sewer Manhole	Sewer	○	●	●	County	County	County DPW	
SLOPES	Slope (1992)	Slopes	●	●	●	City	City	City GIS	
SLOPES_1999	Slope (1999)	Slopes	○	●	●	City	City	City GIS	
SUBDIVISION	Subdivision Polygons	Subdivision	○	●	●	Regional	County	County Assessor/SanGIS	
SUBDIVISION_LINE	Subdivision Lines	Subdivision	○	●	●	Regional	County	County Assessor/SanGIS	
TOPO_1999_2	Topo 1999 2ft (full City)	Topo	○	●	●	City	City	City GIS	
TOPO_1999_2	Topo 1999 2ft (north half of City)	Topo	○	●	●	City	SanGIS	SanGIS	Not in SDE
TOPO_1999_2	Topo 1999 2ft (south half of City)	Topo	○	●	●	City	County	SanGIS	Not in SDE
TOPO_1999_5	Topo 1999 5ft	Topo	○	●	●	City	SANDAG	City GIS	
TOPO_2	Topo 1992 2ft	Topo	○	●	●	City	City	City GIS	

Layer	Description	Category	External Warehouse List*	External Warehouse List**	Available for Download	Coverage	Owner/Steward	Data Received From	Notes
TOPO_20	Topo 1992 20ft	Topo	○	●	●	City	City	City GIS	
TOPO_5	Topo 1992 5ft	Topo	○	●	●	City	City	City GIS	
WTR_HYDRANT	Water Fire Hydrants	Water	○	●	●	City	City	City Water	
WTR_PIPE	Water Mains	Water	○	●	●	City	City	City Water	
ZONING_SD	City Zoning	Zoning	○	●	●	City	City	City DSD	
ZONING_UN	County Unincorporated Zoning	Zoning	●	●	●	County	SANDAG	County DPLU/County Zoning Ordinance	
AIR_RUNWAYS	Airport Runway Zones		●	○	○	Regional	SANDAG		Remainder not in FTP
DIST_LIGHTING	Lighting Districts		●	○	○		County		
DIST_RESOURCE_CONSERVATION	Resource Conservation Districts		●	○	○		County		
ECO_MSCP_HABITRAK	Regional MSCP Habitatrak Data		●	○	○	Regional	SANDAG		
FIBERBLDG	Downtown City Buildings with Fiberoptics		●	●	○	City	City		
FIBERNET	Downtown City Fiberoptic Network		●	●	○	City	City		
GRIP	City Economic Development		●	○	○	City	City		
HYD_303D_WATERS_LINE	303d Waters Segments		●	○	○	Regional	County		
HYD_303D_WATERS_POLY	303d Waters Polygons		●	○	○	Regional	County		
HYD_STREAMS_SG	SANDAG Streams		●	○	○	Regional	County		
HYD_WATERSHEDS_SG	Stormwater Permit Watersheds		●	○	○	Regional	County		
LANDUSE_SG	SANDAG Landuse		●	○	○	Regional	County		
PARKS	Countywide Parks	Parks	○	●	○	Regional	County		
RAILROAD	Railroads		●	○	○	Regional	County		
SCHOOL	Schools		●	○	○	Regional	SANDAG		
SURVEYDOC_FREEWAY_ANNO	County DPW Survey Doc Freeway Anno		●	○	○	Regional	County		
SURVEYDOC_GRID_LINE	County DPW Survey Doc Grid Lines		●	○	○	Regional	County		
SURVEYDOC_GRID_POLY	County DPW Survey Doc Grid Polys		●	○	○	Regional	County		
SURVEYDOC_HIGHWAY_ANNO	County DPW Survey Doc Highway Anno		●	○	○	Regional	County		
SURVEYDOC_JUR_ANNO	County DPW Survey Doc Jurisdiction Anno		●	○	○	Regional	County		
SURVEYDOC_MAJOR_RD_ANNO	County DPW Survey Doc Major Road Anno		●	○	○	Regional	County		
SURVEYDOC_MINOR_RD_ANNO	County DPW Survey Doc Minor Road Anno		●	○	○	Regional	County		
SURVEYDOC_PARCEL_ANNO	County DPW Survey Doc Parcel Anno		●	○	○	Regional	County		
SURVEYDOC_PARK_LG_ANNO	County DPW Survey Doc Large Park Anno		●	○	○	Regional	County		
SURVEYDOC_PARK_SM_ANNO	County DPW Survey Doc Small Park Anno		●	○	○	Regional	County		
TOPO_40_SG	SANDAG 40 foot contours		●	○	○	Regional	SANDAG		
SubTotal			98	212	245				

* List from SanGIS Data Warehousing Intranet & Internet Geodatabase Data Model Document published February 2007
 ** List from SanGIS Datawarehouse List August 10, 2007
 *** Census geography is available but grouped with other census attribute data

Ownership	Count	Percent	Coverage	Count	Percent
City	94	34.2%	City	93	34.3%
County	125	45.5%	County	19	7.0%
SANDAG	23	8.4%	Regional	158	58.3%
SANGIS	30	10.9%	State	1	0.4%
Unknown	3	1.1%			
GIS Data Layer Total Count	275	100.0%	Total	271	100.0%

Layer	Description	Category	External Warehouse List*	External Warehouse List**	Available for Download	Coverage	Owner/Steward	Data Received From	Notes
-------	-------------	----------	--------------------------	---------------------------	------------------------	----------	---------------	--------------------	-------

NOTES: